Inside displaced to violet means focus should be made shorter.

Pressing in right hand switch of dome turning relay moves dome to the east.

Hour Angle
End

our Angle End	Declination	Seeing	Ptg. Mag.	REMARKS

David Dunlap Observatory
74" Logbook
Vol. 15
Plate Nos. 11732 - 12620
Dec 1945 - Sept. 1946

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Date Monday Dec 17-18 1945 L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
11732	HD. 23838	03 43.1	44 40	I-25	E-103a-O	set .008	-9.1	22 06	22 46 3
11733	HD. 28271	04 22.5	30 09	"	"	"	-9.1	22 59	23 47 4

Dec. 17	MC	SC	MTW	STW
	−54°.2	−24°.8	+23ˢ.8	+0ᵐ.4

Focus set at 23.87

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
O 28 W	44 52	O	6.57	G0	3-3-3
O 50 W	30 16	O	6.68	F5	3-3-3

Strong wind, image unsteady
Dome turning starter refused to work, made all changes manually, running up and downstairs while turning dome

Date Tues. Dec 18-19, 1945 Hd Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	PH	Hour Angle End
11734	224 801	23 55.7	44 42	I-25	E103aO	set 008	-8.1	17 45	18 11	4	E15
11735	3264	00 30.7	48 00	"	"	"	-8.1	18 17	19 07	1	W10
11736	8862	01 22.3	43 32	"	"	"	-8.1	19 16	19 50	2	E0
11737	9709	01 30.0	46 36	"	"	"	-8.1	19 55	20 45	3	W04
11738	16855	02 37.1	43 07	"	"	"	-8.1	20 49	21 29	4	W02
11739	23438	03 43.1	44 40	"	"	"	-8.1	21 32	21 54	1	E12
11740	26015	04 02.0	14 54	"	"	"	-8.2	22 03	22 25	2	E0
11741	27483	04 15.2	13 38	"	"	"	-8.2	22 30	23 00	3	W01
	Focus test.										
11742	29104	04 29.8	19 41	"	"	"	-8.1	23 08	23 48	4	W04
11743	35522	05 20.2	15 23	"	"	"	-8.1	23 53	00 43	1	W15

Left focus unchanged

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
E 15m	45 00	0	6.25 A0p	3,3,3	Dome not turning either way all night. good
W 0 06	48 17	0	7.14 B_2	3,3,3	weak
E 0 03	43 48	0	6.54 B9	3,3,3	Blew fuses in dec setting. Fixed fine
W 0 44	46 21	0	7.00 B8n	3,3,3	Total eclipse of ☾ good
W 0 21	43 19	0-1	6.72 A_2	3,3,3	fine
E 0 20	44 50	1	6.57 G2	3,3,3	slight strag
E 0 07	15 02	0	6.28 F_2	3,3,3	fine
W 0 15	13 17	0	6.56 F4	3,3,3	fine
outside Thin base				10/7	center slightly to violet
W 0 48	19 49	1-2	7.26 F8	3,3,3	good
W 0 53	15 26	1	7.02 B8	3,3,3	Light clouds. weak
					Dome temp +8.

	MC	SC	MTW	STW
Dec. 21	−51.8	−31.5	−21.8	−0.3
			add 1 min	

Date Sat Dec 22-23, 1945 Hd Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
11744	HD 2019	00 19.4	30 49	I-25	103a O	008	-10.0	17 57	18 47 2	W0
11745	HD 3264	00 30.7	48 00	"	"	"	-10.0	18 51	19 45 3	W0
11746	HD 5638	00 53.0	46 31	"	"	"	-10.0	19 48	20 18 4	W1
11747	HD 9709	01 20.0	46 36	"	"	"	-10.0	20 21	21 21 1	W1
11748	HD 15138	02 21.2	50 07	"	"	"	-10.0	21 25	21 59 2	W1
11749	HD 18473 N	02 53.1	59 17	"	"	"	-10.0	22 04	23 04 3	W1
11750	HD 29104	04 29.8	19 41	"	"	"	-10.0	23 10	00 00 4	W1
	Focus Test.									
11751	HD 35179	05 17.9	16 36	"	"	"	-10.0	00 08	00 32 1	W1

Set focus 23.89

Time	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS	
17 2	W 0 11	31 05	0	6.78 B9	3,3,3		Good
45 3	W 0 59	48 18	0	7.14 B2	3,3,3		weak
13 4	W 1 10	46 47	0	6.47 B2	3,3,3		good
21 1	W 1 36	46 53	0	7.00 B8n	3,3,3		good
59 2	W 1 22	50 23	0	6.61 F2	3,3,3		fair
04 3	W 1 55	59 28	0	7.35 A0	3,3,3		l. weak
10 9	W 1 15	19 49	0	7.06 F8	3,3,3	flipper in.	fair
	outside	Thro	bars		10/7		
32 1	W 1 00	16 40	0	6.15 A1s	3,3,3	Was D on shorter slit earlier?	fair

Dome Temp +1°F. Everything working fine.

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Date Sunday, Dec. 23-24, 1945 W Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
11752	HD 209813	22 01.0	+46 45	I-25	E103a-O	slit 008	-12.8	[illegible]	18 24	2
11753	213389	22 25.8	+48 51	"	"	"	-12.8	18 26	[illegible]	3
11754	2413	00 23.2	+31 53	"	"	"	-12.9	19 30	[illegible]	[illegible]
11755	2767	00 26.1	+33 32	"	"	"	-12.9	20 04	[illegible]	1
11756	14688	02 17.1	+16 25	"	"	"	-12.9	[illegible]	[illegible]	[illegible]
11757	15211	02 27.5	+14 36	"	"	"	-12.8	[illegible]	[illegible]	[illegible]
11758	23626	03 41.5	+21 54	"	"	"	-12.9	[illegible]	[illegible]	[illegible]
11759	27483	04 15.2	+13 38	"	"	"	-13.0	[illegible]	[illegible]	[illegible]
11760	34053	05 09.5	+22 16	"	"	"	-13.0	23 [illegible]	[illegible]	[illegible]
11761	35358	05 19.2	+21 [illegible]	"	"	"	-13.1	[illegible]	[illegible]	[illegible]

[illegible] - o.t.b.

71 W & N wind. Clear all day. Cold

Frame set 23.93 [points at 9.7, 1.5 plane tilt by trig.

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
2 19 W	+47 01	0	7.52 K0	3-3-3	
2 09 W	+40 07	0-1	7.55 K1	3-3-3	Fairly bright gibbous light $0^m.6^{3d}$
1 27 W	+32 11	0-1	6.71 A0	3-3-3	
1 21 W	+32 14	0	7.08 K0	3-3-3	
1 01 W	+16 40	0-1-0	6.78 A1	3-3-3	
1 37 W	+41 52	0	6.57 B8	3-3-3	Beginning guiding; slipping a little bit but not...
0 52 W	+32 05	0-1	6.65 F2	3-3-3	
0 53 W	+13 46	1	6.56 F1	3-3-3	
0 37 W	+22 16	0-1	6.22 A2	3-3-3	Star focused not fully given.
1 12 W	+21 13	1	7.27 K0	3-3-3	Very H = 3.5 in middle with wet
				$10^s/7^s$	

12:07 plate is done

Still [illegible]

Sun -7 (W & E N) -1.5 MC -2.0 SC +0.2 +0.3

Date Tues Jan 1-2, 1896 1Hd Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
11762	HD 3664	00 30.7	+71 00	3 25	Cramer	3rd 0.06	-9.2	19 05	19 30	+1
11763	HD 6435	01 01.2	50 07	"	"	"	-9.2	19 35	20 17	1
11764	HD 15473N	02 33.1	57 17	"	"	"	-9.2	20 29*	21 33	2
11765	HD 27483	04 10.2	15 38	"	"	"	-9.2	21 57	22 25	3
	Focus Test.									
11766	BD 55189	05 17.9	16 36				-9.3	23 35	23 09	+1
11767	HD 36484	05 36.9	32 40	"	"	"	-9.2	23 14	23 54	0
11768	HD 40332	05 53.2	01 49	"	"	"	-9.3	23 58	00 27	1
11769	BD +7395	06 33.3	08 21	"	"	"	-9.3	00 35	01 22	2

Hardware guide telescope restart
Set focus 23.58
Low voltage very weak at first.

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
W 1 22	[illegible]	0	T-T [illegible] 3,3,?	Jon. by twi. To mend. at 15 35
W 0 24	50 21	1	6.61 F2 3,3,3	Windy
W 1 02	59 29	1	7.35 A0 3,3,3	* RA setting failed. Tightened set screw.
W 0 34	13 46	1	6.56 F4 3,3,3	Hazy
0 T 13			-0/7	Clouds coming & going
W 0 15	16 41	0	6.09 A3 3,3,3	" " "
W 0 51	32 47	1	6.56 A2 3,3,3	" " "
W 1 08	+1 51	0	6.20 A5 3,3,3	" " "
W 0 45	28 20	1	5.50 B7 3,3,3	more P.E. Trouble

	MC	SC	MTW	STW
Jan. 4	-36.6	-56.2	-3C.4	-C.?

Date Sunday Jan 6-7 1946 H Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
						Slit				
11770	0 Cet	2 14.3	-03 26	I-25	F-103a-O	008	+10.0	19 58	20 11	4

Forecast 23.64

Cloudy + very mild all day
Clears around 19 hrs. temp. down to 5°.
Left shutters open overnight = by ~~morning~~ 4 p.
Mirror + mirror ~~temp~~ OK, dome + floor wet.

Time	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
	0 4.vV	-03 10	0	4½m M var. 6½	4-4	Strong S-W winds. Light clouds sudden

Date Saturday Jan 10-11/46 L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
11771	HD 14628	02 17.1	16 25	I-25	E-103a-O	Set .008	+1.0	20 45	21 13	1
11772	HD 28271	04 22.5	30 09	"	"	"	+1.0	21 19	21 41	2
11773	" 28104	04 29.8	19 41	"	"	"	+1.0	21 43	22 21	3
11774	" 39238	05 18.2	31 08	"	"	"	+1.0	22 25	23 06	4
	Focus check				Outside through		base			
Sat Jan 12-13		First clearing		12000	but becoming		solid	periodically		
Sunday Jan 13-14		H	cloudy							

Focus set at 23.755?

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
				Cloudy early evening, clearing quickly sometime between 19.05 - 19.30. Heavy clouds in N.W. waited until 20.00 before starting to open.
1.55 W	16 40	1	6.78 A15	3-3-3
0 17 W	30 15	1	6 65 F5	3-3-3
0 53 W	19 48	1	7.06 F5	3-3-3 Light cloud
0 47 W	31 13	1	7.39 K0	3-3-3 Clouds toward end of session
				7-10 Sky filling with cloud, poorly clearing later, later clearing

	MC	SC	MTW$_s$	STW
Dec. 11	-21.0	-56.6	-20.0	+0.^{m}1

after that, very high wind.

Date Sunday Jan 15-16 1911 Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	
11775	HD. 14688	02 17.1	16 25	I-25	E 103a O	508	-8.9	18 09	19 01	1
11776	" 15633	02 37.1	43 07	"	"	"	-8.9	19 08	19 59	2
11777	" 15773N	02 53.1	59 17	"	"	"	-9.0	20 01	21 25	3
11778	" 23838	03 13.1	44 40	"	"	"	-9.0	21 29	21 37	4
11778=	" 23922	03 22.2	15 23	"	"	"	-9.0	22 30		1
	Jacus Rock				Outer Strong			Line		

Focus set at 23.975?

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
1 03 W	15 39	O!!	6.75 A9	3-3-3 Poor Noise staying to focus, seeing good!
0 37 W	43 20	O	6.72 A2	3-3-3 Seeing is getting
1 50 W	39 29	O	7.35 A0	3-3-3
1 34 W	47 51	O	6.57 G0	3-3-3 Cirrus clouds suddenly at end of exp.
	15 26	O	7.02 B9	3- Waited for sky to clear
				10-7 Clouds coming in quickly at 32.98 starting to have light, closing

21

Date Wed Jan 16-17, 1924 Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
1177	HD 14658	02 17.1	+6 25	T-2.5	Ilford Process	008	-10.2	20 39	21 19	2
1178	45 Tauri	04 03.2	19 38	"	"	"	-10.0	21 27	21 32	3
1179	110 Tauri	05 17.7	26 36	"	"	"	-10.0	21 54	22 29	4
1180	HD 36959	05 28.9	32 44	"	"	"	-10.0	22 11	22 [illegible]	[illegible]
1181	HD 37366	05 [illegible]	21 52	"	"	"	-10.0	[illegible]	[illegible]	[illegible]
1182	AM [illegible]	[illegible]	[illegible]	"	"	"	[illegible]	[illegible]	[illegible]	[illegible]
1183	HD [illegible]	[illegible]	[illegible]	"	"	"	-9.9	[illegible]	[illegible]	[illegible]
1184	HD [illegible]	[illegible]	[illegible]	"	"	"	[illegible]	[illegible]	[illegible]	[illegible]
1185	HD [illegible]	[illegible]	15 20	"	"	"	-9.9	[illegible]	01 16	[illegible]
	Exposure [illegible]									

Set focus 23.90.

Time T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
		16 40		6.78 A15	3,3,3	Camera fan but image seems good.
		13 45	2	6.56 F2	3,3,3	
			2-1	6.15 A15	3,3,3	
			3-4	6.56 A2	3,3,3	
			3-1	7.07 B2	3,3,3	
			1-2	6.72 B2	3,3,3	Took brighter + omitted 1 of 3 exposures
			1-1	6.90 F2	3,3,3	
			3	7.11 A2	3,3,3	
			3	7.60 F2	3,3,3	Clouds in middle of exposures. Done at end
		16 52			9,9	

Next field only, have moving
to Telescope Tube.

Some Trouble closing down
to Tube

Date Sat Jan 19-20 1946 Hol. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	PM
11785	HD 10588	01 38.2	31 43	I-25"	E 103a-O	008	-11.7	18 29	19 49.	2

Sunday, Jan 18-19, 1946 H — cloudy

Jan. 18 MC -24.0 SC -57.4 MTW -11.8 S.T.W. -0m.2 (adv. 1 min.) 24

On first opening & setting seeing was so bad that I did not start exposure. There was a definite (but not much) improvement with 15 mins in dome.

Left focus. Reads about 23.91

Time	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
2	W 1 45	31 58	0!!	7.20 G5	3,3,3	Seeing is terrible. Lowest While re setting the clamp pinion N/S. Had to put tel. over to 4½ W to reach it. While there RA clamping went N/S. At 20 I decided to give up in view of bad seeing, low temp (-3°) and increasing cirrous haze

Date Night Jan. 21-22 1946 L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
11789	HD 45194	06 21.0	13 10	J-25	E-103a-O	set .008	-5.5	23 00	00 10 3	
11790	" 68461	08 07.9	16 49	"	"	"	-5.5	00 15	01 15 4	
	Focus check			Outside temp			Clear			

Sun set at 23.53.5P

Time	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
					Cloudy early evening, breaking and partly clearing at 19.30, waited until 21.00 when sky looked respectable. On opening found mirror coated with ice crystals, waited until coating evaporated having left shutter open. Seeing very poor.
3	1 33 W	13 09	O	7.09 F8	3-3-3
4	0 52 W	16 43	O	6.90 G6	3-3-3
					10-7
					M.T.W. S.T.W.
					-11s -0.1m Reset L.

(W = Helena)

Date Tues. Jan. 22-23, 1946 H.E. W Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
11791	HD 14688	02 18.1	+16 25	Ī-35	Σ103-O	003	-2.1	19 35	20 09	1
11792	HD 280015	02 22.9	+14 54	"	"	"	-3.9	20 24	21 10	2
11793	35 189	05 17.9	+16 36	"	"	"	-5.4	21 11	21 37	3
11794	35 532	05 20.2	+15 22	"	"	"	-8.2	21 46	22 20	4
	Focus Test							21?	?	

Already awake.

Set [illegible] 21.8L

Time	Hour Angle End	Declination	Seeing	Ptg. Mag.	[illegible]	REMARKS
	0.73				10/2	Very windy, [illegible]

-4 -7 F

	MC	SC	MTW	STW
Jan. 23	-18.7	-58.0	+07.3	+0.0

Date Wed. Jan 23-24, 1946 L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
11795	HD. 14685	02 17.1	16 25	I-25	E-103a-O	Set .008	-6.7	18 13	18 45 1
11796	" 16855	02 37.1	43 07	"	"	"	-6.4*	18 53	19 23 2
11797	" 19536	03 03.5	60 15	"	"	"	-6.0	19 29	20 07 3
11798	" 29109	04 29.8	19 41	"	"	"	-5.8	20 17	20 41 4
11799	" 34033	05 00.5	22 10	"	"	"	-5.6	20 45	20 59 1
11800	" 35238	05 18.2	31 08	"	"	"	-5.5	21 03	22 13 2

Focus set at 23.85?

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
0 19W	16 39	1	6.78 $A_{1.5}$	3-3-3	Slight haze *Dome temperature rising!
0 36W	43 20	1	6.72 A_2	3-3-3	
0 54W	60 29	1-2	7.26 $A_{1.5}$	3-3-3	
0 02W	19 48	2	7.06 F_8	3-3-3	Reset focus to 23.84
0 20E	22 15	2	6.22 A_2	3-3-3	
0 43W	31 13	2-1	7.37 K_0	3-3-3	Haze, clouds.

Date Sat Jan 26-27 1946 Jul Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
11801	HD 15814	02 27.5	14 36	I 25	E1-3-0	.008	-8.3	18 36	19 26 3
11802	HD 20015	03 18.4	04 31	"	"	"	-8.4	19 29	20 33 4
11803	HD 29104	04 37.8	17 41	"			-8.4	20 34	21 50 5
11804	95 Cetti	03 11.2	41 49	"	"	"		21 54	2
	Trans: Test								

Temp -8.3 Set focus 23.85.

Time T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
	W 1h 01	1+ 50	0!	6.57 F8	3,3,3
	W 1 16	4 43	0!	6.97 F8	3,3,3
	W 1 23	19 49	0!	7.06 F8	3,3,3
				6.20 A5	3, Clouds rapid at start. - Thick
		6 FTB.	set 9		10/7.
					Dome Temp. +3.

Date Sunday January 27-28, 1946 M Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
1865	0 cats	2 14.2	-03 26	I-45	E-102-0	5.7 cos	-10.8	17 54	18 14 3	
	From Tel - outside the box - 10°/7°									

Mirr. Temp -11.0 Sunset 2091

Strong West winds.

g Time .T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
3	0 07W	-03 09	10	mr : Md 8-3-3	Thick clouds rising rapidly in west soon after sunset. Sun disappearing 18h-18h4. glare.

35

Date Fri Feb 1-2/46 L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
11806	HD. 16855	02 37.1	43 07	I - 25	E-103a0	set .008	- 4.1	18 30	19 05 4

Focus set at 23.82?

Time T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
14	0 55W	43 19	0	6.72 A2	3-3-3.	Light clouds at sunset, clearing. Cloudy during eyp. star gone at 19 65 sky remaining mostly thick occasionally thinning & showing brighter stars.

Date Sunday, February 3-4, 1946 Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
1307	0 Cet	2 14.3	-02 26	I-25	S-10	2nd 008	-12.1	18 06	18 37 1
1308	-2 158 14	2 27.5	-14 36	"	"	"	-14.9	18 37	19 17 2
1309	23626	2 41.5	-31 24	"	"	"	-14	19 20	19 55 2
1310	23833	03 42.1	+14 40	"	"	"	-12.0	20 03	20 37 1
1311	29104	04 29.8	+19 41	"	"	"	-12.3	20 41	21 15 1
1312	35179	05 17.9	+16 36	"	"	"	-12.0	21 22	21 46 2
1313	35239	05 18.2	+21 08	"	"	"	-12.0	21 53	22 23 3
1314	52913	06 57.7	+19 17	"	"	"	-12.11	22 37	23 14 4
1315	68461	08 07.4	+16 49	"	"	"	-12.0	23 21 23 57	0 30 1

Transit 23.91 +10° F

Time T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS	
	0 52 W	-03 13	0	[illegible] Mid	3-3-3	Put [illegible] in 18[21]	+ 5° F
	1 28 W	+14 50	0	6.57 F2	3-3-3		+ 3° F
	2 [illegible] W	+32 05	0	6.65 F6	3-3-3		+ 2
	1 23 W	+44 57	0	6.57 G0	2-3-3		
	1 [illegible] W	[illegible]	0	7.06 F8	3-3-3		
	1 17 W	+16 40	0-1	6.15 A8	3-3-3		+ 1
	2 07 W	-3 19	0-1	7.37 K0	3-3-3		0
		+19 14	0-1	5.98 A2	3-3-3		0
	0 43 W	+16 43	0-1	6.90 F6	3-3-3	Started on wing plate	-1

	MP	SC	MTW	STW
Feb. 6	-01.5	-56.8	-02[s].3	-0[m].6

Date Sept. 7-8, 1946 L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Ang End
11816	HD. 45194	06 21.0	13 10	I-25	E-103a-O	set .008	-5.0	21 30	22 19 2	09
11817	" 54901	07 05.6	15 30	"	"	"	-5.0	22 44	00 21 3	09
11818	" 72208	08 26.5	10 09	"	"	"	-5.0	00 28	01 12 4	36
	Iris chute				Outside through base					

Focus set at 23.83?

Time T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
					Weather unsettled in early evening. clouds, light snow, finally settling down. A dappling auroral display at 10 evening. Brilliant rose colours, and fade greens.
	1 09W	13 08	O	7.09 F_8	3-3-3
	2 09W	15 27	O	7.60 F_2	3-3-3
	1 36W	10 00	O	6.58 A_0	3-3-3
					10-7

Date Fri Jul 8-9 1946 L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Ang. End
11819	HD. 23626	03 41.5	31 54	I-25	E-103a-O	set .008	-5.4	18 34	19 08 1	
11820	" 23838	03 43.1	44 40	"	"	"	-5.3	19 13	19 43 2	
11821	" 28271	04 22.5	30 09	"	"	"	-5.2	19 48	20 22 3	

Four left at 23.83

Time T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
	0 20W	32 03	0	6.65 F6	3-3-3	
	0 53W	44 49	0	6.57 G0	3-3-3	Dome temperature rising!
	0 53W	30 16	0-1	6.68 F5	3-3-3	
						Clouds rolling up while setting on next star. Shy remaining shut down at 23/00

Date Sunday, February 10-11, 1946 H -N Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
11822	HD 15138	02 21.2	+50 07	I-25"	E-103a-O	0.8 mm	-3.0	18 32	19 06	4
11823	23823	03 43.1	+44 40	"	"	"	-2.2	19 09	19 43	1
11824	27483	04 15.2	+13 38	"	"	"	-3.1	19 46	20 20	2
11825	29104	04 29.8	+19 41	"	"	"	-3.3	20 22	21 01	3
11826	35338	05 18.2	-21 08	"	"	"	-2.1	21 07	22 11	4
11827	81741 81780	09 13.8 09 37.1	+10 04 +10 24	"	"	"	-03.1	22 31	23 43	1
11828	82780	09 29.1	+40 34	"	"	"	-03.1	22 45	23 59	2
11829	81905	09 24.1	+45 16	"	"	"	-02.9	23 23	0 17	3

Fremont 23.81

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
1 41 W	+50 22	0	6.61	F_2 3-3-3	
1 01 W	+44 30	0	6.57	60 3-3-3	Very dense emulsion grain over entire field.
1 07 W	+13 48	0	6.56	F4 3-3-3	
1 35 W	+19 49	0-1	7.06	F8 3-3-3	
1 54 W	+31 12	0-1	7.37	K0 3-3-3	
	+39 52	0-1	6.90 ~~F2~~ to	F2 3-3	wrong star HD 82741
1 03 W E	+40 13	0-1	6.90	F2 3-3-3	
1 55 W	+43 03	0-1	7.26	A3 3-3	Dome turning not working

	MC	SC	HTW	STW
Feb 13	+09 0	-55 c	+23 c	-07

(Two plates with meter cameras; 5 min star trail on T Cr Bor.)

Date Thursday February 14-15 L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
11830	HD. 47415	06 33.4	84 41	I-25	E-132-0	set 008	-2.0	20 57	22 07 1
11831	" 61295	07 33.5	32 14	"	"	"	-2.0	22 12	22 4[illegible] 2

Sat Feb 16-17 Hd. Mirror frosted - attempts to clear unsuccessful
mostly cloudy anyway. Dome temp rising.

Sunday Feb 17-18 H[illegible] Clear most of day, fair [illegible] Cloudy [illegible]

M1 found at 23.8 ?

Time T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
						Squalls at sunset clearing later with high wind, waited till wind eased up before opening.
M1	O 52W	24 41	O	6.98 F8	3-3-3	
M2	O 24W	32 11	O	6.48 F2	3-3	haze, sky thickening, stars out at 23.0

Date 9 mar. Feb. 18-19/46 L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Ang. End
11832	HD. 28271	04 22.5	30 15	I-25	E-103a-O	Set .008	-7.2	19 00	20 24 3	35
11833	" 45194.06	21.0	13 10	"	"	"	-7.3	20 39	22 01 4	114
11834	" 68461.03	07.4	16 49	"	"	"	-7.3	22 06	23 12 1	39
11835	" 81065.09	18.1	52 01	"	"	"	-7.3	23 27	00 33 2	49
	Focus check			outside through base						

Set focus 23.85?

Time T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
						Start delayed by several minor grievances
243	1 35W	30 17	O	6.68 F5	3-3-3	Seeing disgusting!
014	1 14W	13 08	O	7.05 F8	3-3-3	" " "
1E1	0 39W	16 43	O	6.90 G0	3-3-3	
2E2	0 49W	51 52	O	6.93 G0	3-3-3	Dec. Clamp stuck. Ster happy
					10-7	ere. Set thick & took direct
						photograph of Tempo.
						Set clamp, quite thick at 4.00, - 5.00

Date Thurs. Feb 21-22, 1946 L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Ang End
11836	HD. 34033	05 08.5	22 10	I-25"	E-103a-O	Set .008	-7.6	18 45	19 19 3	
11837	" 37366	05 37.0	30 50	"	"	"	-7.8	19 24	20 [illegible] 4	
11838	" 54001	07 05.6	15 30	"	"	"	-7.8	20 44	22 24 1	
11839	" TC353	08 21.3	10 26	"	"	"	-7.8	22 30	23.00 2	
	" 81995	09 24.1	45 12	"	"	"			3	

Wed Feb 27-28 Hd. Clearing 2230 – 2300 Tried to open about 2345 but couldn't get shutters open (snow on rails?) With field glasses searched carefully for Nova TCrB without finding it. Believe it is fainter than 8m

P.S. Thurs AM: TCrB must be * appreciably fainter than HD 143808 vis mag 8.2.

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
0 05E	22 14	0	6.66 A_2	3-3-3
0 52W	30 04	0	7.27 B_3	3-3-3
1 05W	15 26	0	7.60 F_2	3-3-3
0 19W	10 16	0	6.30 A_0	3-3-3 Hazy, light clouds, star gaze at 2300
			7.22 A_5	

MTW STW

Feb. 25 +08s 0.0m

HC SC

27 +23 -55.4 00 +0.1

Date Thurs. Sept 29 1949 L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Ang End
11840	HD. 14688	02 17.1	16 25	I-25	E-103a-O	Ser 008	-4.0	18 55	20 37 3	
11841	" 44867	06 19.1	16 07	"	"	"	-5.6	20 20	21 30 4	
11842	" 72206	08 26.5	10 09	"	"	"	-3.6	21 35	22 15 1	
11843	" 82180	09 29.1	40 24	"	"	"	-3.5	22 20	22 54 2	

focus set at 2352

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
+ 03 W	16 40	0	6.76 A_{10}	3-3-3	Misty sky, delayed start
1 24 W	16 06	0-1	7.15 G_7	3-3-3	Dew, temperature rising
- 02 W	10 02	0-1	6.58 A_0	3-3-3	
0 22 E	40 14	1-2	6.90 F_2	3-3-3	Cirrus, sky falling in

Date Sat. March 2-3 Hd-W Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T. PM	Hour Ang End
11844	BD63961	08 07.4	+16 49	I-25	Eastman O	cut .008	+4.7	22 24	23 10 3	W 1
11845	72208	06 26.5	+10 09	"	"	"	+4.4	23 14	23 50 4	W 14
11846	99647	11 25 0	+47 12	"	"	"	+4.3	00 01	00 51 1	E 01
	Focus test									

Cloudy earlier.

Focus Set 23.71

g Time G.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
10 3	W 1 24.	16 43	0	6.90	G6 3,3,3,	
30 4	W 1 45	10 01	0	6.58	A0 3,3,3	Dome vlaps failing repeatedly.
51 1	E 0 13	47 00	1-2	7.49	K0 3,3,3	Pretty high winds.
	outside thru base.				10/7.	

55

Date Sunday 22nd 24 1904 H Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Ang End
11547	HD 36454	05 26.9	+32 44	I-35	[illegible]	2-1 2.5	31	20 08	[illegible]	[illegible]
11548	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
11549	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
11550	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
11551	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Many [illegible] until
dark [illegible] light 21st

Clear all day; clouded over after
sunset. Cloud [illegible] after dark.
[illegible] N with [illegible] of [illegible]
Sunset 23.73

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
			[illegible]		[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	

Mar. 4. ~~Spotter~~ repaired C.F.

	MC	SC	MTW	STW
Mar. 6	+40.1	-54.9	$+00^{s}.2$	$-0^{m}.2$

Date Thursday April 7 8, 1910 L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
11852	HD. 35562	05 202	13 23	I-25	L [illegible]	30 009	8.0	19 20	20 22 E
11853	" 63630	07 [illegible]	46 12	"	"	"	8.0	20 30	21 16 3
11854	" 72298	08 265	10 09	"	"	"	8.0	21 21	22 05 4
11855	" 81995	09 29.1	45 12	"	"	"	8.0	22 11	23 31 1

Focus out at 23.57

Time T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
	14 W	15 27	0	7.02 B8	3-3-3	Some time spent guiding finder
	0 11W	46 06	0	6.67 A5	3-3-3	
	0 E0W	10 02	0	6.59 A0	3-3-3	
	0 +1W	+6 03	0	7.26 A6	3-3-3	Hazy - clouds, sky flickering

	MC	SC	MTW	S.TW
Mar. 8	+42.8	-54.5	+07.5	+0.0

Date Sat March 9-10, 1946 (W) Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T. PH	Hour Angle End
11856	HD 72208	08 26.5	10 09	I-25	E103a-O	Slit .008	*-2.0	22 17	22 57 2	
11857	72780	09 29.1	40 24	"	"	"	-2.0	23 02	23 44 3	
11858	99967	11 25.0	47 12	"	"	"	-2.0	23 48	00 48 4	
11859	~~107905~~ 108654	12 18.9	43 05	"	"	"	-1.9	01 01	01 25 1	

Note. Finder at top of spectrograph has been adjusted. Now star is on slit when ⊕

Clearing about 2145

Set focus 23.80.

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
W 1 19	+ 10 01	0	6.58	A0 3,3,3	some clouds + snow flurries.
W 1 03	40 15	0-1	6.90	F_2 3,3,3	checked field carefully.
W 0 12	47 01	1	7.49	K0 3,3,3	Focus Test OTB 10/4
E 0.03	42.52	1	6.32	F_2 n 3,3,3,	W guiding

Fairly brilliant aurora. Low arch with short streamers at 21h 45m.

	MC	SC	MTW	STW
Mar. 11	+50.9	-54.2	+02.5	+00.0

4

Date Sunday, April 11 = 145 L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
11860	HD 74567	06 19.1	16 07	I-25	E-1360	Set .008	-0.4	19 50	20 50 2.	
11861	" 72359	08 20.3	10 26	"	"	"	-0.4	20 53	21 [illegible]	
11862	" 72929	09 11.8	27 51	"	"	"	-0.4	21 34	22 3[illegible]	
11863	" 82191	05 25.4	27 50	"	"	"	-0.4	22 39	[illegible]	
	Sounds				OTB					

Focused at 23.77

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
1 27W	16 08	0-1	7.15 G7	3 3 3	Light haze
0 02E	10 18	0-1	6 30 Ao	3-3-3	Haze
0 19W	27 41	1	6 95 F5	3-3-3	Haze, light clouds
0 37W	27 40	1	6 59 Ao	3-3-3	Light cirrus
				10-7	

	MC	SC	MTW	STW
Mar. 13	+50.5	−53.7	+04.7	+0.3
15	+52	−54	00	+0.2

Date Friday April 15-16 1966 L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
11864	HD 44250	06 13.1	30 01	I C5	L-103a0	30' 20s	+ 10.9	19 33	20 57 2
11865	" 82150	09 29.1	40 24	"	"	"	+ 10.9	20 40	21 34 3
11866	" 76216	08 [illegible]	38 36	"	"	"	+ 10.9	[illegible]	[illegible]

Focus set at 23.625

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
1 50 W	+10 02	0	7.06 Ao	3-3-3	Clouds at west, delay started
C + 1 E	+10 14	0	6.00 F2	3-3-3	
C + 1 W	+38 27	0+1	6.96 Ao	3-3-3	Light clouds, heavy dew. All photos with dew corrector

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Date Saturday March 16-17 1946 HH-W Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T. PA
11867	HD 40372	05 53 2	+01 49	I-25	103aD	clouded 008	+9 0	19 00	19 30 1
11868	HD 40450	06 57	30 01	"	"	"	+9.8(.4)	19 34	20 38 2
11869	HD 52915	06 57.9	09 17	"	"	"	+9.2	20.55	21.29 3
11870	HD 72205	08 26.5	10.09	"	"	"	+9.3	21.38	22.40 4
	Focus check							Setting 9	

Focus left as is. Dread it = 3.65

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
0 52 W	N 1 52	0	6.20 A_5	3,3,3
1 36 W	N 30 01	0	7.06 A_0	3,3,3 W guiding - Hazy
1 46 W	9 15	1	5.99 A_2	3,3,3 W changed W plotted ph # 4 Down 1 mag. or more
1 20 W	N 10 03	1	6.58 A_0	3,3,3 " " " " " #1 - getting worse.
outside thru base				10/7 Focus test by W.

	MC	SC	MTW	STW	SW
Mar. 13	+55.2	-52.7	+08.2	+0.3	-07

67

Date Monday March 18-19 1916 Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
11871	HD. 46148	06 06.5	15 47	I-25	E-1360	Sp. 008	+9.0	19 15	20 47
11872	" B2780	09 23.1	40 24	"	"	"	+9.0	20 53	22 17.2
11873	" 81025	09 18.1	52 01	"	"	"	+9.0	2 40	22 E7.1
11874	" 81995	09 24.1	45 18	"	"	"	+9.0	22 28	23 22.4
11875	" 99302	" 20.5	27 19	"	"	"	+9.0	23 29	00 [illegible] 1
	Town clock			Cat's Island Base					

Focus set at 23.655?

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
1 44 W	13 47	0-1	7.63 F8	3-3-3	
0 33 E	40 13	1	6.90 F2	3-3-3	
0 29 W	51 31	1	6.93 G0	3-3-3	Haze
1 21 W	43 02	1-2	7.06 A5	3-3-3	Haze
0 26 W	27 06	1-2	7.21 A2	3-3-3	Haze
				10-7	

Date Tues Mar 19-20 1946 Hd-W Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
11876	HD 35076	05 17.0	28 51	I-25	E103a-O	Hartmann 008	+11.7	19 16	19 36	2
11877	HD 54901	07 05.6	15 30	"	"	"	+11.7	19.44	20 40	3
11878	HD 68776	08 08.8	13 22	"	"	"	+11.5	20.52	21.42	4
11879	HD 81025	09 18.1	52 01	"	"	"	+11.6	21 53	22.21	1
11880	HD 81995	09 24.1	45.12	"	"	"	11.2	22 30	23 02	2
11881	HD. 94118	10 46.7	46.20	"	"	"	11.3	23.10	23.44	3
11882	HD. 99302	11 20.5	27.19	"	"	"	11 3/4	23.51	00.30	4
11883	HD 107904	12 18.9	43.05	"	"	"	11 2	00 38	00 58	1
	Focus Test.							Sit	9	

Tour set at 23.62

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
W 1 45	+28 56	1	6.37 B9	3,3,3	W opened, set + guided.
W 1 02	11 18	1-2	7.60 F2	3,3,3	Set on ♄. Beautiful! (about 1/8 of field)
W 1.00	13 [illegible]	1	7.48 K0	3,3,3	
W 0.50	51 51	2	6.93 G0	3,3,3	
W 1 01	45 02	2	7.26 A5	3,3,3	
W 0.39	46 06	2-1	7.13 A1	3,3,3	
W 0.37	27 05	1	7.21 A2	3,3,3	
W 0.08	42.53	1	6.32 F2N	3,3,3	
outside	Thru base			10/7	W doing all changing + guiding.

	MC	SC	MTW	STW	
11 hrs. 20	+1.9 C	-51 6	+15.2	+0.5	-0.7

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Date Wednesday Sept 22-21 1946 L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
11584	H.D. 63357	07 46.1	71 57	I-25	E-103a-O	set .008	+13.0	19 50	21 [illegible] 3	
11585	" 65299	07 53.0	84 21	"	"	"	+13.1	21 31	21 [illegible] 4	
11586	" 52780	09 29.1	40 29	"	"	"	+13.0	22 30	22 [illegible] 1	
11587	" 99267	11 20.3	30 32	"	"	"	+13.0	23 07	[illegible] 4.2	
11588	" 106926	12 12.7	15 42	"	"	"	+13.0	23 55	00 43 3	
11589	" 112734	12 53.8	28 52	"	"	"	+13.0	00 48	01 16 4	
	Iron flash				Outer density 1.0					

Focus set at 83.6

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
1 09 W	7 53	0	7.52	A0 3-3-3	
1 25 W	34 17	1	6.39	A0 3-3-3	Set on Saturn, aspect III
1 04 W	40 14	1-2	6.90	F2 3-3-3	
0 01 E	30 19	1-2	7.16	A5 3-3-3	
0 03 W	15 29	1-2	7.53	K0 3 3-3	
0 01 E	28 38	1-2	6.75	A5 3-3-3	
				10-7	

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Date Thursday March 21-22 Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Ang End
11890	HD. 63633	07 44.8	46 12	I-25	E [illegible]	set .008	+13.9	20 20	21 00 1	

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
0 50W	46 02	0	6.67As	3-3-3 Image very thinking Moved datum to B of HSA and then Mitchell through the beam. Later sky remained murky with just Alpha star showing.

Date Friday April 22-23 1926 — Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
11891	HD 47270	06 42.7	44 06	I 25	L 103-0	2mm	+24	19 20	21 02.2
11892	" 82780	09 29.1	40 24	"	"	"	+12	21 01	22 03 3
11893	" 20929	09 11.8	27 31	"	"	"	+13	22 07	23 15 4
11894	" 99302	11 20.5	27 13	"	"	"	+12	23 20	00 38.1
	Focus check				O.T.3				

Focus selected 23675

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
2 04 W	+4 05	0	7.51 Mo	3-3-3	
0 19 W	+0 14	0	6.90 Fe	3-3-3	
1 44 W	-7 42	0	6.95 Fe	3-3-3	
0 55 W	-7 05	0	7.2 Ag	3-3-3	
				10-1	

Saturday Date March 22-24 1946 Hd. - W Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Ang End
11895	HD 52913	06 57.9	+09 17	1.25-	E-103a O	008	+7.7	19.23	19.4? ½	
11896	HD 61295	07 33.6	+32 14	"	"	"	+7.7	19.55	20.35 3	
11897	HD 92559	08 27.2	+10 26	"	"	"	+7.7	20.41	21.11 4	
11898	HD 82780	09 29.1	+40.24	"	"	"	+7.7	21.25	22.15 1	
11899	HD 94118	10 46.7	+46.20	"	"	"	+7.5	22.23	23.25 ½	
11900	HD 107904	12 18.9	+3.05	"	"	"	+7.5	23.44	00.14 3	
11901	HD 112570	12 52.6	+6.44	"	"	"	+7.5	00.31	1.11 4	

Nafpaktos

Focus setat 2.3.67

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
0.33	7.14	0!	5.99 F2	3,3,3	Hd guiding
0.45	-32.10	0	6.48 F2	3,3,3	W " without advice
0.37	10.16	0	6.30 A0	3,3,3	W " with some advice
0.29	40.15	0	6.90 F2	3,3,3	W " " " "
0.22	46.07	0	7.13 A1	3,3,3	Non binary Spectral class
0.14	42.53	0-1	6.33 F2 M	3,3,3	" " " " " Drift ↓ Fac ↑
0.03	46.21	1	7.20 G8	3,3,3	" " " " -1 " ↑↓

Spectacular aurora - notes by the observer

MC SC ΔTW = TW

12h 33m +6m 5 = -5.1 +2.3 +0.1

Date Sunday, April 25-26, 1942 L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Ang End
11502	HD 54901	07 05 6	15 30	I-23	E-1-240	5cc 003	+29	19 27	20 07	1
11503	" 6875	09 08 8	17 22	"	"	"	+9	20 31	21 21	2
11504	" 32785	05 28 0	46 29	"	"	"	+9.1	21 [illegible]	21 [illegible]	3
11505	" 93216	10 41 8	60 31	"	"	"	+3.2	22 [illegible]	22 [illegible]	4
11506	" 93967	11 20 0	47 12	"	"	"	+9.1	22 [illegible]	23 [illegible]	1

Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
1 13 W	15 23	1-2	760	F_2	3-3-3	
1 03 W	13 14	1-2	748	K_0	3-3-3	
0 [illegible] W	42 14	2	608	F_5	3-3-3	Condensation
0 00	60 26	3	743	A_0	3-3-3	
0 09 E	47 00	2	1.45	K_0	3-3-3	

	MC	SC	MTW	STW
Mar. 27	+67.5	−50.5	$+28^s$	$10^m.1$

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Hd. – W.

Date Wednesday March 27 – 28 1946 Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
11907	HD 52913	6h 57.9	+9 17	I-25	I-103A	.008	15.0	19.19	19.39	2
11908	HD 54901	7.0	+5 30	"	"	"	14.0	19.46	20.07	3
11909	HD 68776	8 08.8	-13 22	"	"	"	14.9	21.02	22 04	4
11910	HD 82750	9 29.1	+41 24	"	"	"	14.08	22.08	22 38	1
11911	HD 94118	10 46.7	+46 ~~25~~ 20	"	"	"	15.0	22.41	23.21	2
11912	HD ~~99 96~~ 100020	~~11 25 0~~ 11 25 5	~~+47 12~~ +47 29	"	"	"	14.9	23 28	00 10	3
11913	HD 99967	11 25.0	+47 12	"	"	"	14.9	00.16	01.06	4
	Junket									

focus set at 23.59

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
N 0.39	9 15	0	5.99 A2	3.3.3.	Red guiding not recommended good
W 1.49	15 27	0	7.60 F2	3.3.3.	W " " much too red
W 1.50	13 14	1	7.48 K0	3.3.3.	" " good
W 1.05	12 15	1	6.90 F2	3 3 3	
W 0.33	46 07	1	7.13 A 1	3 3 3	... ic in Cepheus
W 0.45	11 16	1	~~7.14 K0~~ 7.16 G5	3 3 3	* Not on program. Set in error for HD 99767
W 1.41	4700		7.49 K0	3.3.3	
	Switch Yhe Band			10/7	

Date Thursday March 29-30 1946 L-W Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
11914	HD 63587	07 46.1	71 57	I 25	E-1430	set 008	+20.5	19 35	20 31	1
11915	" 63299	07 53.0	84 21	"	"	"	+20.5	20 40	20 56	0
11916	" 76216	08 49.7	58 36	"	"	"	+20.5	21 02	21 30	3
11917	" 86780	09 29.1	40 24	"	"	"	+20.5	21 35	22 03	4
11918	" 93286	10 41.2	60 38	"	"	"	+20.5	22 09	22 55	1
11919	" 99567	11 23.0	47 12	"	"	"	+20.5	23 00	23 41	2
11920	" 99267	11 20.3	30 32	"	"	"	+20.5	23 47	00 17	3
11921	" 106926	12 12.7	15 42	"	"	"	+20.2	00 49	01 29	4
11922	" 116394	12 17.5	12 27	"	"	"	+20.4	1 39	02 15	1

Fours set at 23.49

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
C 46W	71 53	1-2	7.52	Ao	3-3-3 good
O 35W	84 16	2	6.30	Ao	3-3-3 (guiding) fine
O 43W	58 27	2	6.36	Ao3	3-3-3 stormy
C 37W	40 14	2	6.90	Fe	3-3-3 fine
O 17W	20 25	2	7.47	As	3-3-3 stormy
O 19W	47 00	2	7.45	Ao	3-3-3 fine
01.01W	30 20	2	7.16	A2	3.3.3 fine
01.22W	15 28	2	7.53	Ko	3.3.3 Dome refused to turn when I wished. very windy
21 05W	17 45	2	7.20	?	3.3.3 00.20. Stopped done with guide outside Knight Lane 1°/4 of Lowell necessary fours ok

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Date Sat Mar 30-31, 1946 Hd-W. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Ang End
11923	HD 47415	6 53 4	24 41	I-25"	E103aO	.008"	+8.9	19 23	20 23	2
11924	HD 81995	09 24 1	45 12	"	"	"	+8.9	21 04	22 24	3
11925	HD 91116	10 5 3	46 20	"	"	"	+8.9	22 42	23 52	4
11926	" 107904	12 8 3	43 05	"	"	"	+8.8	00 03	00 38	1
	Focus Test									

Twilight 2-3 Mostly clear but extremely high wind, about 20. students of astronomy + 26 Showed Telescope Hd.

Twilight 5 Clear late afternoon, long bank of clouds in NW at sunset. Opened up, clouds rolling up and sky filled in by 7.30. waited, then finally closed up. Still hopeless at 10.30 closed. L

Trans set 23.65

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
2.01W	24 40	0	6.98	F8	3,3,3	about 20 vectors of Tauchnitz comet. Showed ☿ (not good) and ♂ (very poor)
1.12W	45 02	0	7.26	A5	3.3.3	
1.18W	46 06	0	7.13	A1	3,3,3	
0.29W	42 58	0	6.38	F2 II	3 3. 3.	Very favorable seeing all night;
O.T. T3					10/7	

Dome turning gave trouble at times.
Some trouble with declination guiding motion
— it jams at times on correction.

	MC	SC	MTW	STW
Apr. 1	+73.7	-50.0	-20.0	0.0
			Add. 1 min	
3	+75.2	-50.0	+21.2	+0.1

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Date Sat Aft 6-7, 1946 Hd Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Ang End
11927	HD 72208	08 26.5	+10 09	I-25"	E10sa0	~~Oct~~ 008	+5.2	19 34	20 34 2	
11928	HD 82780	09 29.1	40 24	"	"	"	+5.2	20 42	21 42 3	
11929	HD 94118	10 46.7	46 20	"	"	"	+5.1	21 46	22 46 4	
11930	HD 99267	11 20.3	30 32	"	"	"	+5.2	22 49	23 55 1	
11931	HD 108651	12 23.8	26 27	"	"	"	+5.2	23 59	00 59 2	
	Focus Test								6.9	

Apr. 5 | MC +73.5 | DC −47.9 | HTW −00ʰ8ᵐ | DTW −0.0ᵐ

Some clouds around at opening Time. reset

Focus set 23.70

Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
W 0 46	10 01	0	6.58	A_0	3,3,3	some clouds Dome failing } 10 visitors - explained work.
W 0 51	40 14	0	6.90	F_2	3,3,3	" " Drive very erratic }
W 0 39	46 06	0-1	7.13	A_1	3,3,3	Light clouds
W 1 14	30 19	0	7.16	A_8	3,3,3	" "
W 1 15	16 14	0	6.75	A_2	3,3,3	
	OTB				10/7.	

Note: As suggested by H, the trouble with the drive is in the differential gears. The one next to the east one "drags" quite frequently.

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Date Sunday April 7-8 1946 H Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
11932	HD 72255	8 25	+10 09	I-25	E-103-0	2.7 mm	+53	19 57	20 26 3
11933	72355	8 27 3	+10 24	"	"	"	+58	21 29	22 56 4
11934	72770	8 29 1	+11 34	"	"	"	+52	23 10	23 [illegible] 1

Clear all day; light frost at night

Trees not budded (237)

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
2 42 W	+10 13	1	6.58	A0 3-3-3	Clouds slowly thinning * 7h p.
1 W	+11 17	1	6.30	A0 3-3-3	
1 34 W	+11 14	1	6.00	F2 3-3-3	Clouds, end of Tr. Start

Still Track 11^{30}

	MC	SC	MTW	STW
Apr. 8	+71.5	-49.4	+10.7	+0.2

* Clock track during delay in starting which difficulties in Clock Track started. Trouble appears to be in Clock Lighted. Swing. Track Clock.
N.B. Motor noisy about to bind.

Date Tuesday April 9-10/46 L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Ad End
11935	HD 70929	09 11.8	27 31	I-25	E103a-O	Set .008	+3.3	10 44	20 40 2	0 1
11936	" 82191	09 25.4	27 30	"	"	"	+3.8	30 44	21 15 3	1 4

Focus set at 23.72

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
0 19W	27 42	0	6.95 F_5	3-3-3	Tracking image wanders
0 40W	27 41	0-1	6.99 Ao	3-3-3	clouds suddenly at 21 07, thick at 2115
					Thick at 2200 clouds up

	MC	SC	MTW$_s$	STW$_m$
Apr. 10	+69.8	−49.4	+20.0	+0.2

Date Thursday April 10 1941 L. W. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
11937	HD 68776	08 09.8	13 22	I 21	E 1360	2mm 002	+2.8	10 30	10 30 1
11938	" 99302	11 20.5	27 19	"	"	"	+2.5	21 15	21 15 2
11939	" 99967	11 21.0	47 12	"	"	"	+2.8	22 20	22 20 3
11940	" 56180	08 29.1	10 36	"	"	"	+2.8	23 25	23 25 4
11941	" 112354	12 52.8	22 52	"	"	"	+2.8	0 42	0 42 1
11942	" 112448	12 53.6	22 46	"	"	"	+2.1	1 10	1 10 2
11943	" 131495	14 48.8	85 06	"	"	"	+2.8	2 55	2 55 3
11944	" 137854	15 23.2	12 12	"	"	"	+2.1	3 32	4 42 "
					Focus Set		2.78		

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
1 35 W	13 16	0	7.48 Ko	3-3-3	Good night!
0 10 E	27 06	0	7.61 A2	3-3-3	
0 50 W	47 01	1	7.49 A0	3-3-3	Large cirrus
3 30 W	63 13	1-0	6.90 F2	3-3-3	" " "
0 52 W	22 39	1-0	6.75 A5	3-3-3	
1 35 W	36 14	1-0	6.91 F0	3 3 3	
1 03 W	00 36	1-0	7.08 F3	3 3 3	
3 15 W	12 04	0	7.34 F0 7.09 K2	3 3 3	Dome revolved to turn near end of exposure to Coudé
	10/7				plate as intended. Dome turning again after the contacts had started in error to the E. W.

Harvard College Observatory

Date Thursday April 12/28 Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
11945	HD 99567	11 25.0	47 12	I 25	E 103.0	set .008	+6.2	22 30		
11946	" 11552	13 17.5	13 53	"	"	"	-6.2	01 [illegible]	01 [illegible]	
11947	" 128296	14 21.0	11 30	"	"	"	+6.2	01.24	02 42	
11948	" 13,184	15 23.3	12 12	"	"	"	+6.1	02.47	03 37	
11949	" 126696	17 17.0	29 01	"	"	"	+6.1	03.44	04.44	
				Focus Test				G.C.T.		

Transit at 23.69

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
1.74 W	47 00	0	749 K0	3-3-3	Very cloudy almost, partly St.
1.04 W	12 45	0	750 G1	3,2,3	all time, [illegible] at 22.30
1.11 W	11 19	0	802 A5	3 3 3	
1.14 W	12 04	0-1	7.6.1 F2	3 3 3	
0.37 W	12 55	0-1	758 F2	3.3.3.	[illegible] at 03.50
	10/7				Patches with St. Sunset
					sunk with at 37.
					Low humidity
					clear

	MC	SC.	MTW s	STW m
Apr. 12	+63.2	-49.2	-26.8	+0.1
				adv. 1 min.

Date Friday April 12-13/46 Hd Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
11950	HD 72359	08 27.3	10 26	I-25	Eastman 103a-O	Set 608	+8.1	19 43	20 19 2
11951	HD82780	09 29.1	40 24	"	"	"	+8.2	20 22	21 22 3
11952	HD 99967	11 25.0	47 12	"	"	"	+8.3	21 26	22 36 4
11953	HD94118	10 46.7	46 20	"	"	"	+8.1	22 41	23 51 1
11954	HD112570	12 52.6	46 44	"	"	"	+8.2	23 58	25 08 2
	Focus test								Set 9

Sat Apr 13-14/46 Hd (4 q 2) about 30 visitors Cloudy at first then partly clear. Showed ½ with 74"; (½ ½ with 4". Sky dirty at 2200, worse at 2300 - closed.

Focus set 23.67

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
W0 53	10 16	0	6.30	A_0	3,3,3
W0 55	40 14	0	6.90	F_2	3,3,3
W0 13	47 00	0-1	7.49	K_0	3,3,3
W2 09	46 05	0	7.13	A_1	3,3,3
W0 57	46 30	1	7.20	G_8	3,3,3
OTR.					10/7.

{ plate fogged, night before we } spotting box.

EST start ok, End EST prob 23 53 Tu 1986

Start prob 23 53, End prob 00 18 Tu

Set 74" on ☾. Not very good with present eyepiece.

	MC	SC	MTW	BTW
Apr. 15	+66.2	-48.8	+22.6	+0.m1

Date Tues April 16-17, 1946 HQ (H.S) Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	
11955	HD 82191	09 25.4	27 50	I-25	E 103a0	checked 008	+5.4	20 48	21 38	3
11956	HD 82780	09 29.1	40 24	"	"	"	+5.4	21 41	22 31	4
11957	HD 107904	12 18.9	43 05	"	"	"	+5.4	22 34	23 04	1
11958	HD 112570	12 52.6	46 44	"	"	"	+5.4	23 09	23 49	2
11959	HD 116594	13 19.5	12 57	"	"	"	+5.3	23 53	01 03	4
	Focus Test	"	"	"	OTB	"			Set 9	

Set focus 23.70
Had trouble locating star between prisms. Prism at end of guiding periscope had got turned.

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
W 1 31	27 39	0	6.59 A_0	3,3,3 about 30 visitors, 1st yr astronomy + friends, shown by
W 2 20	40 13	0	6.90 F_2	3,3,3 "
W 0 05	42 52	1	6.32 F_2	3,3,3 "
W 0 16	46 30	1	7.20 G8	3,3,3 "
W 1 03	12 44	0	7.50 G7	3,3,3 "
				10/7

Date Thurs April 18-19/46 L-W. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
11960	HD 99967	11 [illegible]	47 12	I-25	[illegible]	Spec .005	+10.0	20 50	[illegible] 1	
11961	" 106926	12 12.7	13 42	"	"	"	+10.0	21 56	[illegible] 2	
11962	" 112734	12.538	28 42	"	"	"	+10.0	23 06	[illegible] 3	
11763	" 125168	14 30.3	11 35	"	"	"	+10.0	23 45	00 35 4	
[illegible]	" 135679	15 11.3	26 01	"	"	"	+10.0	[illegible]	[illegible] 1	
[illegible]	[illegible]	16 24.6	17 21	"	"	"	+10.0	02 00	[illegible] 2	
~~11765~~	" 137234	[illegible]	11 20	"	"	"	+09.6	03.22	[illegible] 3	
	Same	Set	Slit				C.T.S	10/4		4

Forwarded

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
0 05 E	47 00	0-1	7.43 Ko	3-3-3	Stars, Sandy and pupils, Set
0 15 W	15 29	0-1	7.33 Ko	3-3-3	Stars Sandy, Set watch to
0 10 W	23 36	0-1	6.75 A5	3-3-3	watch in West.
0 30 E	13 21	0-1	7.20 ~~7.52~~ A3	3 3 3	Sandy Set
0 26 E	25 54	0 1	6.67 Ac	3 3 3	Sandy Set
0 14 E	17 48	0	7.26 Ac	3 3 3	Stars set dim, pupils not kept
0 30 E	11 12	0	7.34 F0	3 3 3	Stars set dim not kept Sandy

Sandy not kept better. Target
& pupils.

four o's

Date ... Julian Day ...

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
11766	HD 99267	11 21.3	+31 32	I-25	I 103.0	0.05	+54	21 59	22 51	4
11767	106926	12 12.7	+15 42	"	"	"	+53	22 54	23 54	1

Time T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
	0 [illegible] W	+30 18	C	716 A8	3-3-2	
	1 16 W	+15 30	0-1	753 K2	3-3-3	
						Light clouds after closing, fog forming, partly cleared by 0 30
						About 125 visitors. Showed Saturn + ζ Leonis with 74-in using focal 1 transit showed Jupiter + Europa with 4-in.

Date Sunday April 21-22, 1946 HL Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T. PH.
						Set			
11968	HD 79929	09 11.8	27 51	I=25	E103aO	008	+9.1	19 49	21 19 2
11969	HD 99967	11 25.0	47 12	"	"	"	+9.1	21 25	22 15* 3
	Focus Test								

St Johns 23.65

g Time S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
	4/ 1h46	27 41	0!	6.95 F5	3,3,3 Unusually bad seeing and light clouds.
	W 0 24	46 59	0!	7.49 K0	3,6 *Thicke by 2200, margin of clearing.
		O.T.B.			10/7.

	MC	SC	MTW	STW
April 22	+61.2	-58.1	-16s8	+0m2

add 1 min.

Date Monday April 22 23/46 L-W Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
11970	H.D. 82750	09 29.1	40 24	I-25	E-103a-O	set .008	16.1	22 48	23 16 3	
11971	" 106926	12 12.7	15 42	"	"	"	16.2	23 23	23 37 4	
11972	" 114988	13 09.1	~~23 54~~ 23 04	"	"	"	+16.5	00 03	00 43 1	
11973	" 121247 np	14 19.3	11 42	"	"	"	+16 [illegible]	00 50	[illegible] 2	
11974	" 137851	15 23.3	12 12	"	"	"	+16 [illegible]	01 40	[illegible] 3	
11975	" 145762	15 51.2	12 43	"	"	"	+16.2	na 34	[illegible]	
11976	" 152936	16 58.1	18 23	"	"	"	16.2	03 58	04 32 1	
		Time Est					Est			

[illegible] plates; no clouds [illegible] 24 hrs.

Fri Apil 26, south elev. at sunset, [illegible] Monday sky thickening, Aquilus late, clear after

Journal at 23.36

ng Time S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
					Sky thickish at sunset clearing with lots of clouds low down at 9.30, better late
	E W	40 15	2	690 F2	3-3-3
	1 26 W	15 29	3 2	753 I5o	3-3-3
	1 16 W	32 55	C-1-2	7.31 G2	3 3 3
	0 58 W	11 32	C-1	(7.12) F5	3 3 3
	0 50 W	12 26	1C	7.24 F2	3 3 3
	1 31 W	10 38	2	756 A5	3 3 3
	[illegible]	[illegible]	2	740 A-2	3 3
				10/7	
					MC SC M T W S T W
					Tues. 24 +5.5 -48.5 -10.0 +6.4
					26. +5.0 -19.2 -01.3 +0.6

Date Saturday April 27-28, 1946 ~~HA~~ Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
11977	HD 82780	09 29.1	4[illegible] 24	Ī-25	E103aO	008	+5.1	22 05	22 55 1
11978	HD 108651	12 23.8	26 27	"	"	"	+5.0	23 01	23 51 2
	Focus Test								Cit 9

about 100 vectors. Showed b with 7+" 110
Horwood showed b, 4, 8th with 4"+ Zeiss.

Set focus 23.70.

ng Time S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
55	W 3 27	40 14	0	6.90 F_2	3,3,3	Strong wind - hand guiding
51 2	W 1 30	26 12	0	6.75 A_2	3,3,3	" " clouds forming.
+1		OT 3			10/7.	

	MC	SC	MTW	STW
Lv. 29	+55.7	-48.3	+04.5	-0.2

Date Monday April 29/30 - 1946 L-W Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
11979	HD. 93286	10 41.2	60 38	I. 25	E 103a-O	Set .008	+ 12.2	20 90	22 15 3
11980	" 108631	12 23.8	26 27	"	"	"	+ 12.2	22 26	22 50 4
11981	" 112734	12 53.8	28 52	"	"	"	+ 12.2	22 55	[illegible] 1
11982	" 82780	9 29.1	40 24	"	"	"	+ 12.2	23 50	00 25 2
11983	" 125709	14 16.1	27 01	"	"	"	+ 12.2	00 45	01.41 3
		Focus Lt							

Focus set at 23.61

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
1 45 W	60 26	1-0	7.47 A8	3-3-3	Observed elongated star, clouds 21.00-21.20 more clouds, Light passing clouds
0 36 W	26 13	2	6.75 A2	3-3-3	
0 41 N	28 37	2-1	6.75 A5	3-3-3	
5.05 W	40 14	2-1	6.90 F2	3.3.3	
1 36 W	2 51	0	7.46 A2	3.3.3	Many passing clouds 1.0, 1.30 Thick 1.35 at 1.37 Thick decided to close up
Set 9	O.T.B.	1/2			

	MC	SC	MTW	STW
Apr. 30	+55.2	-48.2	+06.0	+0.1

L-W.

Date Thursday April 30-31, 1946 Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
11984	HD. 82780	09 22.1	40 24	I-25	E-103a0	Set .008	15.4	20 10	21 02.4
11985	" 107904	12 18.9	43 05	"	"	"	15.4	21 06	21 36.1
11986	" 82780	09 22.1	40 24	"	"	"	15.4	21 40	22 29.2
11987	" 112570	12 52.6	46 44	"	"	"	15.3	22 33	23 33.3
11988	" 116594	13 19.5	12 57	"	"	"	15.4	23 37	00 51.4
11989	125709	14 16.1	27 01	"			15.4	00 54	02.06
11990	" 132615	15 24.7	16 44				15.3	02.11	02.17
11991	" 152031	16 [illegible]	41 19	"		"	15.2	03 21	[illegible]

Focus Check

Slit

Focus out at 23.57

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
1 45 W	40 12	0	6.90 F_2	3-3-3
0 29 E	42 52	0	6.32 F_{2m}	3-3-3
3 12 W	40 13	0-1	6.90 F_2	3-3-3
0 54 W	46 30	0-1	7.20 G8	3-3-3
1.46 W.	12 43	0-1	7.50 G7	3-3,3
2.08 W.	[illegible] 51	0-1	7.46 A_0	3.3.3 [illegible]
2.37 W	[illegible] 33	0-1	7.65 [illegible]	3,3,3
2.12 W	41 47	0	7.56 A3	3 3 3. [illegible]
	[illegible]			

Date Wednesday May April 1-2, 1946 Hd Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T. P4
11992	HD 99967	11 25.0	47 12	I-25"	E103a-O	Set 008	+16.4	21 00	22 30.1
11993	HD 112734	12 53.5	28 52	"	"	"	16.3	22 35	23 25.2
11994	HD 116594	13 19.5	12 57	"	"	"	16.0	23 28	00 50 3
11995	HD 141930	15 46.6	44 49	"	"	"	16.2	00 55	02 25 4
	Focus Test.								Set 9

Sky very dirty earlier. 116

Set focus 23.56

ng Time S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
30	W 1 22.	47 00	0	7.49 K0	3,3,3
25	W 0 50	28 38	0	6.75 A5	3,3,3
	W 1 49	12 43	0	7.50 G7	3,3,3
25	W 0 57	44 43	0	7.57 A1	3,3,3
	OT 13.				10/7

	MC	SC	MTW	STW
May 2	+52°.3	-49°.4	+12s.3	+0m.2

117

L-W.

Date Thursday Oppy 2-3 1946 Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
11996	HD. 82780	09 29.1	40 24	I-25	E-1030	set .008	+13.3	20 56	21 32 1
11997	" 99967	11 25.0	47 12	"	"	"	+13.1	21 37	23 07 2
11998	" 112570	12 52.6	46 44	"	"	"	+13.0	23 10	00 13 3
11999	" 135517	15 10.4	43 26	"	"	"	+13.0	00 20	00 57 4
12000	" 148543	16 23.7	48 11	"	"	"	+13.1	01 00	01 21 1
12001	" 157702	17 19.7	18 56	"	"	"	+13.0	02 20	03 10 2
12002	" 170132	18 48.4	41 16	"	"	"	+13.0	03 42	04 02 3
		Focus Test					Setg		4 02 ✓

Focussed at 23.58

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS	
				Some time spent in lining up the crosswires in new carrier	
2 44W	40 14	0	6.90 F_2	3-3-3	fine
2 04W	47 00	0	7.49 K_0	3-3-3	fine
1.44 W	46 30	0	7.20 G_8	3-3-3	little strong
0.07W	43 15	0	6.69 A_2	3 3 3 Sup. list	good
0 12W	48 07	0	7.52 K_0	3, 3, 3 " "	little strong
0 32W	18 56	0	7.48 A_0	3 3 3 " "	fine
0.23E	41 19	0	6.18 B_9	3 3 3 DOME REFUSED TO TURN AFTER CHANGING TO THIS PLATE	fine
O.T.B.		10/7		WATCH STOPPED AT 3 ^{h} 48^m 46^s. USED OWN WATCH WHICH IS RUNNING FAST, ABOUT 5 Min. SET IT TO APPROXIMATE TIME. CHECKED WATCH 1/2 MIN. FAST.	

	MC	SC	MTW	⇒TW
May 3	+52.8	−47.9	+12^s.6	+0^m.2

L-W

Date Friday Night May 3-4 1946 Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
12003	H.D. 99302	11 20.5	27 19	I-25	L-[illegible]0	Set 005	+9.0	20 40	22 20 2
12004	" 106926	12 12.7	13 42	"	"	"	+8.9	22 24	23 44 3
12005	" 127740	14 28.0	14 31	"	"	"	+8.8	23 55	01 21 4
12006	" 143597	15 56.3	13 34	"	"	"	+8.9	01 25	02 45 1
12007	" 157294	17 17.3	11 47	"	"	"	+8.9	02 45	03 48 2
		Focus Test				Set 4			
		Saturday May 4-5 1946					H-N-W		

Forecast at 23.65

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
1 25 W	27 04	O	7.21 A2	3-3-3 Long way past!
1 57 W	15 29	O	7.53 Ko	3-3-3
1 20 W	14 19	O	7.46 F5	3 3 3 Lyyr. list
1 16 W	13 28	O	7.44 F5	3 3 3 " "
0 08 W	11 44	O	7.08 A0	3 3 3 " " " "
	O.T.B.			10/7

About 50 visitors. Rain. Showed Lantern slides and Telescope.

	MC	SC	HTW	STW
May 6	+50.6	-48.2	-00^{s}.2	+0.0^{m}
			reset	

(12)

Date Monday May 6-7 1946 L- Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
12008	HD. 99267	11 20.3	30 32	I-25	E-1-E-6	35/85	+11 0	20 42	22 40 5	

Tuesday May 7-8

Broken Clouds at sunset, late sky generally hazy with masses of cloud quite thick to midnight

-L

Focus set at 23.625

g Time S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
	1:11	30 20	0	7.16 A3	3-3-3	Delayed start because of clouds. Haze Dome moist 21.5°, dry 21.0, Humidity 1 Clouded out 00 00 sky thick

	MC	SC	MTW	STW
May 8	+49.0	-48.6	+05.0	+0.1

123

L -

Date Wednesday, May 8, 1946 Julian Day 128

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
12009	H.D. 109651	12 23.8	26 27	I - 25"	L-103a0	Set 008	+11.0	21 04	21 48 +
12010	" 112573	12 32.6	46 44	"	"	"	+10.9	21 56	22 32.1
12011	" 112734	12 53.8	28 52	"	"	"	+10.9	22 37	23 07.2

Focus unchanged from May 6-7

g Time S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
8	0 09W	26 15	1	6.75 A_2	3-3-3	Clouds delayed starting much too strong
21	0 25W	46 31	2	7.20 G_8	3-3-3	Too strong
7h	0 39W	28 38	2	6.75 A_5	3-3-3	Clouds on whole setting strong on next star.

Date Thurs May 9-10, 1946 Hd Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
12012	HD 82780	09 29.1	40 24	I-25	E103a0	008	10.8	20 40	21 20 3
12013	HD 106926	12 12.7	15 42	"	"	"	10.7	21 24	22 34 4
12014	HD 112734	12 53.8	28 52	"	"	"	10.8	22 37	23 07.1
12015	HD 116594	13 19.5	12 57	"	"	"	10.7	23 10	00 24 2
12016	HD 120874	13 47.1	59 02	"	"	"	10.6	00 29	01 01 3
	Focus Test.								

Friday, May 10-11 Cloudy all evening L

Saturday May 11-12, 1946 Hd Ho N about 150 Visitors.
Partly cloudy. Showed moon with 74". N, Ho showed
D 4 5 9 8 with 4", 3½", 3". Thick by 2220 cloud.

Focus unchanged at 23.625

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
E 2 40	40 14	1-0	6.90 F2	3,3,3 Delayed start to get this at time required.
W 1 10	15 27	0-1	7.53 K0	3,3,3. some cirrus haze.
W 1 02	25 38	1	6.75 A5	3,3,3
W 1 55	12 45	0-1	7.50 G7	3,3,3 Haze.
W 2 05	58 49	0	6.36 A0	3,3,3 "
CTB				10/7

427

Date Sunday May 12-13 1946 H **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
3513	HD 52191	7 25½	+27 50	I-25	I-103a-O	.008	12.5	20 44	21 14	4
3514	99267	11 20	+30 32	"	"	"	12.6	21 16	22 [illegible]	1
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3519	[illegible]	[illegible]	[illegible]	"	[illegible]	[illegible]	[illegible]	22 13	23 17	[illegible]
3520	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Monday May 13-14

Set on moon and Jupiter through the hour to acclimate the visitors eyepiece and set the clock using a magnitude in b+v plate of star due to stay. Cloudy thickening, quite thick at midnight.

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
2 [illegible]	+27 [illegible]	1-2	[illegible]	3-3-3	Worked on during a thin, clearing but kept f.
1 [illegible]	[illegible]	1	[illegible]	3-2-2	
[illegible]	[illegible]	[illegible]	[illegible]		M84 (Virgo cluster) 12h 22.9m, +13° [illegible]
[illegible]	[illegible]	1-2	[illegible]	3-2-2	Wind very much [illegible]
[illegible]	[illegible]	2	[illegible]	3-2-3	Wind - [illegible]

	MC	S.C.	MTW	STW
May 14	+44s.0	-49.1	+23s.2	+0m.4
16	+42.4	-49.6	+27.6	-0.1

[illegible] Cloudy and showery.

Sunday May 16-17 cloudy - rain
Friday May 17-18 cloudy all
night

Date Sun May 19-20/46 Hd Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
12021	HD 112486	12 57.9	54 39	I·25	E1030	Set 028	+16.1	22 26	22 58 4	
		Saturday	May 18-19, 1946			H-N				

Cloudy after sunset. clearing about 2130.

Set focus 23.56

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
W 1 35	54 25	0	5.90 A2	3,6 Sky practically thick Thro out.
				Saturday, May 18 - Cloudy with rain and fog about 60 visitors. Heard Steele, N heard Lantz

130

L-D-Ta-W

Date Tuesday May 21-22/46 Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	H
12022	HD 92580	09 39.1	+49 24	J-25	E103a-O	.009	+14.5	22 05	23 11	1
12023	HD 99967	11 25.0	+47 12	"	"	"	+14.3	23 18	00 32	2
12024	HD 141930	15 46.6	+41 49				+14.5	0049	01 56	3
12025	HD 152961	16 51.5	+46 11	"	"	"	+14.9	0200	02 36	4
12026	HD 164578	17 58.2	+49 21	"	"	"	+14.4	02 36	03 30	1
12027	HD 196137	20 30.3	+49 50	"	"	"	+14.2	03 32	04 02	2
	Focus Test					Slit				

Int focus 23.58

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
05h 19m W	+40 16	0-	6.90 F_2	3-3-3	Clouds early evening
04 45 W	+46 59	0-1	7.49 K_0	3-3-3	improving initially/ Windy/
01 42 W	+44 43	0-1	7.57 A_1	3-3-3	seeing deteriorating a little
01 16 W	+43 39	1-2	6.71 A_2	3-3-3	before end, seeing better
01 11 W	+45 22	1-2	7.11 A_0	3-3-3	
01 11 E	+45.00	1-2	6.65 A_2	3.3.3 10/7	
STB.					

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Hd. Sh. To W.

Date Wed. May 22-23/46 Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	FH
12028	HD 107904	12 18.9	43 05	I-25"	E1020	008	+18.1	20 37	21 11.1	
12029	HD 112486	12 51.9	54 39	"	"	"	+18.0	21 15	21 45	2
12030	HD 116596	13 19.3	12 57	"	"	"	+17.9	22.00	0000	3
12031	HD 135679	15 11.3	26 01	"	"	"	+17.7	0005	0041	4
12032	[illegible]	16 51.5	+46 41	"	"	"	+17.8	01 01	01.41	2
	Four Fat									

Power shut off Feb 21-25

Sat May 25-26 Rain no visitors.

Form S.I 10-53

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comparisons	REMARKS
0 33 W	+42 57	0.	6.32 Fe2	3, 3, 3	Sky dirty strong
0 34 W	+54 23	0	590 A2	3, 3, 3	" " 2245 - too strong. weak
02 23 W	+12 43	0	75 97	3-3, 3	Dome turning failed. Relay stuck while operating manually
0 16 W	+2553	1	6-67 A0	3-3-3	Dome turning failed after changing. Velocity good
0- 38 W	+46 37	1-0	67 A2	3 3,-3	Image quality and haze. Star completely lost by 01.45. Used finer
07				10 J Su	prism not moved for focus test

	MC	SC	MTW	STW
May 27	+31.3	-53.7	+00.3	+0.0
			reset	

135

Date Tuesday Mar 26 1946 5-H-51 Julian Day

Plate No.	Object	R.A. ~~1900~~ 1950	Declination ~~1900~~ 1950	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
12033	NGC 5272	13 39.9	+28 23	Newtonian	E 103a-F	–	–	21.53	21 5[illegible]
12034	5053	13 13.9	+17 57	"	E 103a-O	–	–	22.02	22 12
12035	5053	13 13.9	+17 57	"	F 103a-F	–	–	22 13	22 2[illegible]
12036	5634	14 27.0	-05 45	"	E 103a-O	–	–	22 27	22 47
12037	5053	13 13.9	+17 57	"	E 103a-O	–	–	22 14	22 –
12038	5053	13 13.9	+17 57	"	E 103a-O	–	–	22 [illegible]	22 [illegible]
~~12039~~	~~5466~~	~~14 03.2~~	~~+28 46~~	"	E 103a-O	–	–	~~22 41~~	~~22 51~~
12040	5053	13 13.9	+17 57	"	E 103a-O			23 56	0[illegible]
12041	5053	13 13.9	+17 57	"	E 103a-O			00 09	00 19
12042	5205	14 [illegible]	+32 [illegible]	"	E 103a-O			00 24	00 35
12043	5946	15 10.0	+02 16	"	E 103a-O			00 [illegible]	00 [illegible]
12044	5466	14 03.2	+28 46	"	E 103a-O			00 39	00 [illegible]
12045	6402	17 35.0	-03 13	"	E 103a-O			00 55	01 05
[illegible]	[illegible]	17 4[illegible]	-0[illegible]	"	E 103a-O			01 12	01 [illegible]
12047	6[illegible]	17 16.2	-1[illegible]	"	E 103a-O			01 34	01 42

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
00 [illegible] W				
01 04 W				
01 [illegible] W				
[illegible]			Recalibrated	
02 [illegible] W				
[illegible]				
[illegible]				
[illegible]

137

Date Tuesday Nov 28-29 1950 (retrieved 5-11-51) Julian Day

Plate No.	Object	R.A. 1950	Declination 1950	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
12947	IC 1360	17 35 1	−5 02	Newtonian	E [illegible]	—	—	[illegible]	[illegible]
12948	6218	16 [illegible]	−01 [illegible]	"	E [illegible]	—	—	01 57	[illegible]
12949	[illegible]	[illegible]	[illegible]	"	E [illegible]	—	—	01 04	[illegible]
12950	6333	17 16 2	−1 [illegible]	"	E [illegible]	—	—	02 12	02 20
12951	[illegible]	17 [illegible]	[illegible]	"	E [illegible]	—	—	[illegible]	[illegible]
12952	6174	19 [illegible]	+3 [illegible]	"	E [illegible]	—	—	[illegible]	[illegible]
12953	[illegible]	21 [illegible]	[illegible]	"	E [illegible]	—	—	[illegible]	[illegible]
12954	7159	21 [illegible]	[illegible]	"	E [illegible]	—	—	[illegible]	[illegible]

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
				Spending all the time Regulus, Vesta will be got high enough for better.

Date Wed May 29-30 Ta-L S-H Julian Day

Plate No.	Object	R.A. 1900 50	Declination 1900 50	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
12055	NGC 5278	13 39.9	+28 38	Newt	E103a-O			21 23	21 36
12056	" 5053	13 13.9	+17 57	"	"			21 34	21 44
12057	" "	"	"	"	"			21 46	21 56
12058	" 6229	16 45.6	47 37	"	"			22 10	22 30
12059	" 6205	16 39.9	36 33	"	"			22 34	22 36
12060	" 5053	13 13.9	+17 57	"	"			22 46	22 56
12061	" "	"	"	"	"			22 58	23 08
12062	" 5634	14 27.0	−5 45	"	"			23 12	23 32
12063	" 5904	15 16.0	+02 16	"	"			23 36	23 39
12064	" 5053	13 13.9	+17 57	"	"			23 57	24 09
12065	" 5466	14 03.2	+28 46	"	"			00 06	00 16
12066	" 5053	13 13.9	+17 57	"	"			00 19	00 29
12067	" 5634	14 27.0	−5 45	"	"			00 34	00 54
12068	" 6171	16 29.7	−12 57	"	"			01 01	01 13
12069	" 6333	17 16.2	−18 28	"	"			01 17	01 27
12070	" 6402	17 35.0	−03 13	"	"			01 30	01 36

ing Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
	0h 00m E	28 30	Poor		
144	0 41 W	-	Poor		
150	0 53 W				
2 10	2 05 E				
	1 53 E				
	1 53 W				
23	2 05 W				
23	1 16 W				
	0 32				
	2 49 W				H Sandwich Plate
	2 23 W				
29	3 26 W				
0054	2 37 W				
01 3	0 54 W				
01 27	0 21 W				plate not unloaded - reexposed for no. 12071 (OTC)
05 0 30	0 13 W				Sequence plate with Red

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Date Wed May 29-30 5-To-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
12070	Kapteyn area 169	17 42.5	-00 11	Newt.	F-103.0			01 40[15]	01 46[15]
12071	NGC 6171	16 29.7	-12 57	"	"			01 50	02 00
12072	" 5466	14 03.2	+28 46	"	"			02 04	02 14
12073	" 6218	16 44.6	-01 52	"	"			02 19	02 23
12074	" 6254	16 54.5	-04 02	"	"			02 25	02 29
12075	" 6333	17 16.2	-18 28	"	"			02 36	02 46
12076	" 6779	19 14.6	+30 05	"	"			02 50	02 56
12077	" 6934	20 31.7	+07 14	"	"			03 00	03 10
12078	" 7089	21 30.9	-01 03	"	"			03 15	03 18

ing Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
46	0 15 W				
	1 41 W				
14	4 27 W				
23	1 49 W				
29	1 46 W				
46	1 41 W				
56	0 08 W				
10	1 10 E				
18	2 02 E				Image rotation - Can't [illegible]
					Guiding as usual except where indicated
					NB. Plates of these two nights show halation about brightest star images due to deterioration of mirror coating.

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Date Thurs May 30-31 Ta-D Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
	Set on HD 112564			Focus Focus Secondary (Steel)					
12079	HD 112570	12 52.6	+46 [illegible]			.007	23.3	21 41	22 11
12080	HD 121247	13 49.2	+43 41			"	23.0	22 19	22 39
12081	HD 123691	14 04.1	+43 11				23.1	22 43	23 07
12082	HD 138406	15 26.8	+42 05				23.1	23 11	23 33
12083	HD 141930	15 46.6	+41 41				23.0	23 41	00 51
12084	HD 152951	16 51.5	+40 91				23.0	[illegible]	01 25
12085	HD 158013	17 21.7	+37 05				29.1	01 31	02 11
	Focus Test								
12086	HD 169978	18 [illegible]	+35 21				23.0	02 27	03 09
	HD 180316	19 11.0	+27 51						
	Saturday June 2-31								
	[illegible]								

Focus 5.T 23.45

Clouds, clearing clouds

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
					Trouble starting dome
1h 31m W	+46 30	1	7.20 G2	3-3-3	Binary
1h 02m W	+42 30	1-2	6.69 A0	3-3-3	Val* Declination slow motion jerking "trouble had to reset"
0h 15m W	+48 29	1-2	7.11 F2	3-3-3	Val* Dec O.K. Seeing variable.
0h 21m W	+51 57	1	6.85 A2	3-3-3	Binary Hope seeing in
1h 11m W	+44 41	0-1	7.57 A1	3-3-3	Binary Focal ? change in dec Hope seeing. For clouds
2h 50m W	+46 40	0	6.77 A2	3-3-3	Binary More clouds
1h 07m W	+47 06	0-1	6.61 A2	3-3-3	" Still more clouds
				10-7	
1h 19m W	+45 21	1+	7.44 A0	3-3-3	" Clearer
			6.51 B5		NO. Cloudy again clearing up?
					Last plate probably spoiled by not resetting properly after focus test.
					4+8 plates in dome Mirror heat off.

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Date ..... Julian Day .....

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	
12067	BD [illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	+17.0	[illegible]	[illegible]	I
[illegible]	BD [illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	+17.0	[illegible]	[illegible]	II
[illegible]	BD [illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	+17.0	[illegible]	[illegible]	III
[illegible]	BD [illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	IV
	[illegible]									
			[illegible]							
			[illegible]							

Hour Angle End	Declination	Seeing	Ptg. Mag.	Conditions	REMARKS
01 16 W		0-1	.75 A2	3-3-3	
		1	1.35 M5	3-3-3	
01 29 W		1-2	7.50 G7	3-3-3	
02 17 W.		0	7.31 A2	3-3-3	Clouds & Clearing!
					4 + 0 plates in done.
			To		

Date Monday June 3-4 1946 Ta-D Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Filt	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
12091	HD 116594	13 11 5	+11 37	I 25"	Eastman	.05"	17.3	21 19	21 57	
12092	HD 120179	13 47.1	+59 02				17.2?	22 05	22 19	
12093	HD 117515	13 27.7	+47 46				18.4	22 24	22 46	
12094	HD 120285	13 59.5	+26 18				18.3	22 52	23 18	
12095	HD 119405	13 36	+62 05				18.2	23 23	23 41	
12096	HD 141930	15 46.6	+44 19				18.1	23 47	00 24	
12097	HD 152951	16 56.5	+40 41				18.2	00 33	00 47	
12098	HD 157013	17 2.5	+57 05				18.2	00 56	01 16	
12099	SD 157330	17 29.1	+51 57				18.2	01 18	01 43	
12100	HR 164588	17 [illegible]	+45 [illegible]				18.2	01 47	02 17	
	Focus Test	0713								
12101	HD 176052	18 58	+31 52				18.3	02 28	02 58	
12102	HD 180316	19 11.6	+37 46				18.2	03 02	03 19	
12103	HD 180164	19 14.2	+16 17				18.2	03 18	03 42	

Clouds at dusk set on Jupiter's moons
2 friends of Dr Chant.

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Focus mark 2 28.85.

ing Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
	1h 07m W	+2 0	0	7.20 G7	3-3-3	Binary
	1h 00m W	+58 51	1	6.36 A0	3-3-3	" Temp Control!
	1h 00m W	+7 34	1-2	7.04 A5	3-3-3	Velpt
	1h 11m W	+26 37	1+	7.15 A5	3-3-3	" Brightness of double.
	0h 49m W	+61 58	2-	6.85 A2	3-3-3	Binary
	1h 11m W	+44 41	2-	7.57 A1	3-3-3	"
	0h 36m W	+16 27	2	6.77 A2	3-3-3	"
	0h 18m W	+7 06	2-	6.61 A2	3-3-3	"
	0h 49m W	+52 57	2	7.57 K2	3-3-3	"
	2h 21m W	+6 23	2-	7.11 A0	3-3-3	"
					10-7	
	0h 32m W	+31 57	1+	7.20 A3	3-3-3	"
	0h 32m W	+21 54	2	6.51 D5	3-3-3	"
		+16 25	1+	7.24 F5	3-3-	"

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Date Tuesday June 4-5 S-H-L-D Julian Day

Plate No.	Object	R.A. 1900 50	Declination 1900 50	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour An End
12104	N.G.C. 5272	13 39.9	28 36	Newt.	E 114-0			21 20	21 23	1
12105	" 5053	13 13.9	17 57	"	"			21 27	21 37	2
12106	" 4147	12 07.6	18 49	"	"			21 40	21 46	1
12107	" 5466	14 03.8	28 46	"	"			21 49	21 59	2
12108	5053	13 13.9	17 57	"	"			22 02	22 10	1
12109	" 5709	15 16.0	02 16	"	"			22 15	22 19	1
12110	" 6229	16 45.6	47 37	"	"			22 23	22 41	1
12111	" 6205	16 32.9	36 33	"	"			22 47	22 49	1
12112	" 5053	13 13.9	17 57	"	"			22 53	23 05	1
12113	" 5634	14 27.0	-05 45	"	"			23 13	23 31	2
12114	" 5053	13 13.9	17 57	"	"			23 36	23 46	1
12115	" 5466	14 03.8	28 46	"	"			23 49	23 57	1
12116	" 6171	16 39.9	-12 57	"	"			00 17	00 27	1
12117	" 6218	16 49.6	-15 29	"	"			00 29	00 33	1
12118	" 6254	16 54.5	-4 02	"	"			00 35	00 39	1
12119	" 5353	17 16.2	-18 28	"	"			00 42	00 51	1

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
0 52 W	1757			Some scattered light clouds near region of moon
2 13 W	1849			
0 [illegible]	[illegible]			
1 [illegible]	1756			Bright guiding
[illegible]	[illegible]			
1 [illegible]	[illegible]			
1 19 E				
2 26 W	1757			
1 36 W	-05 45			
3 07 W	1756			
2 29 W				
0 32 W	-1256			
0 [illegible] W				
0 19 W				
0 02 W				

	MTW	MC	SC	SW
JUNE 4	+03.8^s	+22.8^s	+13.9^s	−0.1^m

Sidereal clock stopped – rest

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Date Sunday Dec 4-5 S.T.L.D. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
12120	N.G.C. 6316	17 20.7	-17 46	Newt	E-1030			00 55	01 03	
12121	" 6171	16 29.7	-12 57	"	"			01 11	01 21	
12122	" 6341	17 16.2	-19 32	"	"			01 23	01 41	
12123	" 6333	17 16.2	-18 28	"	"			01 44	01 52	
12124	" 6316	17 20.7	-17 46	"	"			01 55	02 09	
12125	" 6517	17 57.1	-8 57	"	"			02 18	02 44	
12126	" 6779	19 14.6	+30 05	"	"			02 49	02 55	
12127	" 6760	19 08.6	+0 57	"	"			02 59	03 13	
12128	" 7089	21 30.9	-1 03	"	"			03 15	03 18	

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
0 27 W				
1 26 W	-12 57			
0 39 W	-19 32			
1 09 W	-19 25			
1 33 W	-17 47			
1 19 W	-19 58			
0 16 W				
0 38 W	+0 56			Sizing all plates Completed
1 32 E				
				June 5 MC +21° SC +13.3

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Date Wednesday June 5-6 S H-T Julian Day

Plate No.	Object	R.A. ~~1900~~ 1950	Declination ~~1900~~ 1950	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour An End
12129	NGC 5272	13 39.9	+28 38	N.G.T	E 103 a-O			21 04	21 07	1
12130	" 4147	12 07.6	+18°44	"	"			21 14	21 20	2
12131	" 5053	13 13.9	+17 57	"	"			21 23	21 33	1
12132	" 6229	16 45.6	+47 37	"	"			21 43	21 59	2
12133	" 5634	14 27.0	-5 45	"	"			22 03	22 19	1
12134	" 5053	13 13.9	+17 57	"	"			22 22	22 30	2
12135	" 6205	16 39.9	+36 33	"	"			22 41	22 58	1
12136	" 6229	16 45.6	+47 37	"	"			23 04	23 18	2
12137	" 5634	14 27.0	-5 45	"	"			23 04	23 20	1
12138	" 5904	15 16.0	+2 16	"	"			23 24	23 28	2
12139	" 5053	13 13.9	+17 57	"	"			23 31	23 41	1
12140	" 6171	16 29.7	-12 57	"	"			23 47	23 57	2
12141	" 5897	15 14.6	-20 49	"	"			00 00	00 10	V
12142	" 6093	16 14.1	-22 [illegible]	"	"			00 14	00 [illegible]	2
12143	" 6402	17 35.0	-3 15	"	"			00 24 50	00 39 32	1
	Neptune 109	17 42.5	-0 11	"	"			00 42 22	00 56 20	

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
0 05W				
1 51W				
0 56W				
2 08E				
0 30W				
1 54W				
24E				
11E				
31W				Pupil
49W				
05W				
06W				
33W				
44W				Not Guiding
2 00W				Septum plate
11W				

Date WEDNESDAY JUNE 5-6 =, N, &, 78 Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
12144	NGC 6333	17 16.2	-17 28	NEWT	E103aO			01 05	01 13	2	0 3[illegible]
12145	6356	17 20.7	-17 46	"	"			01 18	01 32	1	0 4[illegible]
12146	6342	17 18.2	-19 32	"	"			01 34	01 52	2	1 2[illegible]
	"	"	-19 29								
12147	6779	19 14.6	+30 05					01 58	02 09½	1	1 5[illegible]

ng Time S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
	0 35W				referenced
	0 49W				
	1 12W				
					Spanking Nimpoo, Clouds rolling in over Diamond Gave up for night at 0201, Stopped 0205 Disappears 0205½
	C 26E				

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Date Wednesday June 6-7 D Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	
12148	YP 7215	14 [illegible]	+44 20	I-23"	E 103-0	.008	20.8	23 32	[illegible]	2
12149	YP 7227	16 07 2	+44 05				20.9	00 04	00 32	3
12150	YP 7280	16 36 0	+49 07				20.8	00 36	[illegible]	2
12151	YP 5120	17 [illegible]	+40 54				20.6	01 00	01 [illegible]	
	5132	17 18 4	+45 04							

Cloudy until 22h 45m

Focus at 33 mm

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
2h 36m W	+44 57	1+	7.2 M_2	3-3-3	Photographic 3/3 images
1h 05m W	+43 58	2	7.3 K_1	3-3-3	"
1h 07m W	+49 02	2-	6.9 M_2	3-3-3	" light clouds
1h 29m W	+40 51	1+	6.5 K_2 ~~4-4-4-4~~		" 3 eff. 10, 14 cm. filling in from west
			~~6.2 F_2~~		Closing up

	MC	SC	SW	MTW	STW
Jun. 7	+18s.5	+00s.5	+02s.	+11s.5	+0m.1

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Date 1946 June 8-9 Saturday SR, N, W Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Ang End
12152	HD 135517	15 10.4	+42 26	1-25	E-103a0	.008	+22.8	22 27	22 47	2
12153	" 138085	15 24.7	+16 11	"	"	"	+22.3	23 08	23 42	3
12154	" 148832	16 25.7	+15 19	"	"	"	+22.0	23 48	00 10	4
12155	" 158613	17 21.7	+57 05	"	"	"	+22.0	00 54	01 17	5
12156	" 164898	17 58.3	+45 21	"	"	"	+22.0	01 30	02 14	6
12157	" 175743	18 51.7	+17 59	"	"	"	+22.0	02 25	02 43	7
12158	" 180316	19 11.0	+24 46	"	"	"	+22.0	02 50	03 10	8
12159	" 190658	20.09	+15 13	"	"	"	+21.9	03 26	~~00 04~~ 04 00	9
	Focus Test						Sky			

About 200 meters, 4 and 7 Cep and 74-inch, ♀ and ♂ mid 2-inch and 4-inch resp.
Focus set 23.46 ± 160

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
1.25W	+42 16	0-1	6.69 A5 3-3-3	Sup list (Resp. centered 13.5)
1.05W	+16 35	0	7.55 K0 3.3.3	Sup list R.A. 3 mags with list off. Comma up to a.
1.03W	15 17	0	7.57 A3 3.3.3	Sup list. windy. seeing getting worse
1.44W	57 06	0	6.61 A2 3.3 3	Binary
1.05W	45 22	0	7.44 A0 3.3 3	"
0.40W	18 03	0	6.80 K2 3.3.3	"
0.48W	27 53	0	6.51 B5 3.3 3	" fast motion steering
0.48W	15 22	0	8.00 M1 3 3 3	"
OTB			10/7	

14

Date Sunday June 16. 1946 **Julian Day** 5h-T2

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
12160	YP 359 [illegible]	12 [illegible]	+47 [illegible]	C-25	[illegible]	.005	+15 E	20 52	[illegible]	2
12161	YP [illegible]	13 11 4	+47 23	"	"	"	+15 7	21 25	22 01	3
12162	YP 4[illegible]	14 [illegible]	+47 56	"	"	"	+15 6	22 04	22 16	4
12163	HD 1[illegible]	14 27 5	+47 39	"	"	"	+15 4	22 20	22 34	1
12164	HD 128092	14 27 4	+47 27	"	"	"	+15 6	22 40	22 [illegible]	[illegible]
12165	HD 13[illegible]	15 19 5	+10 54	"	"	"	+15 5	23 00	[illegible]	3
12166	HD 137314	15 20 1	+11 21	"	"	"	+15 5	23 40	[illegible] 16	4
12167	HD 145[illegible]	16 [illegible]	+1[illegible] 01	"	"	"	+15 4	00 23	00 51	
12168	HD 156696	17 14 0	+21 01	"	"	"	+15 4	00 58	01 31	2
12169	HD 156987	17 15 5	+28 07	"	"	"	+15 4	01 43	02 09	3
12170	HD 181444	19 14 2	+16 11	"	"	"	+15 3	02 13	02 41	1
12171	HD 170543	18 34 9	+13 47	"	"	"	+15 3	02 46	03 12	
12172	PHD 186316	19 11 0	+27 4[illegible]	"	"	"	+15 3	03 17	03 35	
	Focus Test									
	Monday June 17-46 Clouds D									

To fixed

To head R.A. clamp

ding Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
	01·21 W	+47 30	2-3	7·4	M6	3-3-3	
		+37 2	2-3	7·7	M6	3-3-3	Flare on $\frac{2}{3}$
	01 04 W	+47 43	2-3	6·7	M6	3-3-3	Flare on $\frac{2}{3}$
	00 59 W	+43 38	1-2	6·81	A2	3-3-3	Velocity * Seeing variable.
	00 19 W	+43 16	1-2	6·88	A2	3-3-3	Velocity * Shell haze.
	01 [illegible] W	+10 46	0	7·19	A0	3-3-3	Velocity * Haze!
	[illegible]	[illegible]	0	7·34	F2	3-3-3	Velocity * NO EXPOSURE
	[illegible]	[illegible]	1	7·27	F2	3-3-3	Velocity * [illegible]
	[illegible]	[illegible]	1-2	7·58	F0	3-3-3	Velocity * [illegible]
	01 [illegible]	[illegible]	1-2	7·02	A2	3-3-3	Velocity * [illegible]
	[illegible]	+16 24	1-2	7·34	F7	3-3-3	Binary
	01 [illegible] W	+13 48	1	7·23	F2	3-3-3	Velocity *
	00 [illegible] W	[illegible]	1	6·51	[illegible]	3-3-3	Binary
		[illegible]				[illegible]	

[illegible] put on 11 mm. 12 + 2 plates & done

[illegible] Flare check. R.

Jul. B 12

MC +12.0 SC +07.1s SW zero MTW +25.0s STW +0.2s

Date Thursday June 13-14 1946 D Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
12173	YP 3746	12 20 3	+57 20	I-25	E 11 3416	0.28	18·8	21 00	21 35	3
12174	HD 99767	11 25 0	+47 12				18·6	21 39	22 09	4
12175	YP 4104	13 36 9	+51 01				18·3	22 13	22 33	1
12176	YP 4107	13 36 9	+55 11				18·3	22 49	23 07	2
12177	YP 4958	14 56 0	+66 20				18·3	23 14	23 34	
12178	YP 4542	15 13 5	+67 49				18·3	23 36	23 42	
	"							23 42	23 57	
12179	YP 4979	16 15 6	+60 00				18·1	23 59	00 21	
12180	YP 4979	16 36 0	+56 15				18·1	00 33	00 47	
12181	4979	16 46 3	+61 47				18·1	00 52	01 10	
	"							01 00	01 19	
12182	YP 5243	17 29 9	+41 19				18·0	01 24	01 42	
	Focus Test		OTE							
12183	YP 5962	17 33 9	+43 23				18·1	01 52	02 12	
12184	YP 5706	18 41 7	+59 17				17·9	02 46	03 02	
	"							03 02	03 20	

10 1/2 hrs. 11 P.M. Went on observing.
1946 June 12 Wed. Heavy clouds flying overhead to 22.30 cleared. Weichsel
Heavy clouds continuing, clearing around horizon W. 164

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
2h 18m W	+57 09	C	7.8 M_3	3-3-3	flipper in 1/3
2h 12m W	+46 58	C-1	7.99 K_0	3-3-3	Binary - double star eyepiece [illegible]
2h 05m W	+56 56	1	6.8 F_9	3-3-3	flipper in 2/3
2h 02m W	+55 01	1+	6.6 M_2	3-3-3	"
1h 45m W	+66 12	1+	6.7 M_5	3-3-3	"
	+67 35	1+	5.7 F_9	4-4	flipper in 1/2 setting
1h 40m W			5.7 F_9	4-4	"
1h 33m W	+59 54	1+	7.4 M_4	3-3-3	" 2/3
1h 30m W	+56 05	2-	6.5 K_2	3-3-3	"
	+14 42	1-2	6.8 K_2	4-4	setting 2
1h 24m W			6.7 K_2	4-4	" 3
1h 20m W	+41 18	1-2	7.0 K_1	3-3-3	flipper in 2/3 Trouble turning dome
				4-4	
1h 12m W	+45 22	2	7.6 M0	3-3-3	"
	+59 19	2	5.7 G5	4-4	"
1h 06m W				4-4	"

Focus +1 23.58 I

Date ..... Julian Day .....

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Ang End
12185	VP 5612	19 09 8	+56 11		E—O	.008	+18.0	0809	03 14	3
12186	HD 181144	19 14 2	+16 19				+18.0	0321	03 45	4

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
1h 14m W	+56 46	1-2	6.2 G7	3-3-3	flyspeck in 2/3
1h 34m W	+16 24	1-2	7.34 F7	3-3-3	Binary 4+8 plate in dome Mirror coat on

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1966

Date JUN 14-15 FRI L.To.W. Julian Day

Plate No.	Object		R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Star Angle End
12187	YP	3972	13 01.5	+23 09	I-23	E103a0	008	+19.5	21 [illegible]	21 50	
12188	YP	4244	14 10.2	+69 54	"	"	"	+19.0	22 03	22 35	
12189	YP	4894	16 15.6	+34 02	"	"	"	+19.0	22 45	23 17	
12190	YP	4895	16 18.7	+33 56	"	"	"	+19.0	23 22	23 [illegible]	
12191	YP	5080	16 56.7	+22 47	"	"	"	+19.0	00 01	00 34	
12192	YP	5178	17 17.6	+28 51	"	"	"	+19.0	00 42	01 10	
12193	YP	5429	18 03.2	+30 33	"	"	"	+19.0	01 14	01 31	
	"	"	"	"	"	"	"		01 21	01 31	
12194	YP	5462	18 08.1	+31 23	"	"	"	+19	01 38	01 50	
12195	YP	5614	18 34.7	+36 12	"	"	"	+19.0	02 02	02 22	
12196	YP	5442	18 04.6	+3 59	"	"	"	+18.9	02 30	02 46	
	"	"	"	"	"	"	"		02 36	03 40	
12197	YP	5989	18 31.7	+51 01	"	"	"	+18.9	02 51	02 51	
									02 59	03 11	
12198	YP	6417	20 43.3	+61 27	"	"	"	+15.9	03 18	03 [illegible]	
									03 [illegible]	03 [illegible]	
									03 [illegible]	03 [illegible]	

Set Focus at 23.5

ding Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
	02 00W	+22 56	1-2	7.7 N$_0$	3-3-3	Flying 1/3
	01 32W	+6? 03	1-2	7.2 M$_2$	3-3-3	" " "
	00 12W	+33 58	1-2	7.2 M$_2$	3-3-3	" " "
	0 14W	+33 52	2-1-0	6.9 K$_5$	3-3-3	" " "
	0 50W	+22 46	1	7.1 K$_3$	3-3-3.	" " "
	1 05W	28 41	1-0	6.9 F$_5$	3-3 3.	" " 1/2
	0	30 35	1-0	5.6 F$_5$	3.-3	Flying 1/3
	0 40W				3-3	Flying 1/2
	1 21W	31 25	1-2	6.8 M$_3$	3-3-3	Flying 2/3
	1 00W	05 14	1-2	6.9 F$_3$	3,-3	" " 1/2
		+04 00	0-1-2	6.0 A$_7$n	3,-3	" " 1/2
	1 53W	+51 28			3-3	" " 1/2
			1-2	6.1 F$_6$	3-3	Flying 1/2
	0 52W	+51 02			3-3	Flying 1 1/2
			2-1	4.3 G$_7$	3-3	Flying 1 1/2 (more or less)
	0 09	+51 29			3-3	" "
					3-3	" "

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Date JUN 14-15 Fr. L To W Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
12199	YP 5868	19 12.5	+67 29	I - 2.5	I.F. 2 A	0.8	13.9	03 40	03 43	
								03 43	03 46	
								03 46	03 49	

ding Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
	21 52W	+67 30	2	4.2 K0	3 3.	20 μμ in 1/2
					3 3	" "
					3 3	" "

one exposure shows effect of flexure in fringes.

2 + 8 plate - 2m

Change drier - fix dome contacts.

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Date 1946 June 15-16 Sat Hd. St. To-W. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Filt	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
12200	HD 150203	16 34 4	43 46	2 25	L-103A-O	12	+20.0	22 32	23 02 4
12201	" 143936	15 38.1	18 23	"	"	"	+20.0	23 09	23 49 1
12202	" 154633	1713.7	1726	"	"	"	+20.0	23 53	00 03 2
12203	" 155601	1655.4	1757	"	"	"	+20.0	00 06	00 50 3
12204	" 158251	1723.1	1638	"	"	"	+20.0	00 53	01 35 4
12205	" 173323	1839.9	3913	"	"	"	+19.9	01 41	02 11 5
12206	" 174140	2050.1	2855	"	"	"		02 27	03 39 6

about 250 visitors. Hd + Sh showed
Tr Boo and M 5 (good!) with 7¼" focus 23·5 '72
Ta showed Ω.H.C. with 4" & 2".

ding Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
	0·15E	+43·42	0	7.21 A_{2n}	3,3,3.	Primary
	1·06W	18 17	0	7·40 A_0	3,3,3	Suppl.
	0 05W 0 11 E?	17 25	0	5 96 A_2	3,3,3.	Bin.
	1 10W	17 54	0	7·58 F_6	3,3,3	Supp. Hagen
	1·28W	15 20	0	7·44 F_{05}	3.3.3.	Bin. Wrong star: B.D. 15° 3190′ 1855: 17h 21·2, +15° 32·4, mag. 8·3 1900: (17 23·2 +15 30)
	0 42 1·48W	39 15	1	7·73 K_5	3 3 3	Bin.
		28 21	1	6 2= B_2	3 3 3	Bin.

Slight motion of star required to centre star on point of pressure. Difficult to change setting circles by 1° or 2° and the motion should be made by the hand wheel. Box of plates sent on.

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Date 16-17 Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
12209	Hodgkins	14 29 9	46 20	5.25	Ilford		20 ±	03 16	03 38	
		Focus Test					CTB			

June 23-5

ng Time S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
	1 01 W	+16 58		Sp. Ar.	3, 2, 3. Cloudy all evening. part clearing and clearing then overcast again about 9:00. Stations tracked and setting as previous, but was a bit unsteady after a little time
	Sat q			10/7	

June 17	MC	SC	SW	MTW	STW
	+5s	-1.7s	-6s	+41s	+.3m
18	+4s	+1.3s	-6s	+40s	+.3m (all ± 1s)

Mon-Thes June 17-18 1946

Clouds. thunderstorms D

Date Tuesday June 15-16 1965 5h Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
12206	YP 3910 Com 1712	13 11.9	+17 33	[-25	E 103 a O	.008	+18.7	21 21	22.07	3
12209	YP 4446 6 Boo	13 45 0	+21 46	[-25	E 103 a O	008	+18.7	22.12	22.32	4
	"	"	"	"	"	"	+18 7	22 23	22.38	"
12210	YP 4681 4 Boo	15 31.0	+02 50	"	"	"	+18 7	22 34	22.50	1
12211	HD 137854	15 20 1	+11 20	"	"	"	+18.6	23 55	23.27	2
12212	HD 137854	15 23.3	+12 12	"	"	"	+18 6	23.32	00.04	3
12213	HD 153454	16 54.6	+17 51	"	"	"	+18 6	00.10	00.54	4
12214	HD 181414	19 14.2	+16 19	"	"	"	+18.6	01.02	01.30	1
12215	HD 168498	18 14.9	+11 50	"	"	"	+18.6	01.35	02.07	2
12216	HD 170542	18 24.9	+13 47	"	"	"	+18.6	02.11	02.39	3
12217	HD 170562	18 25.0	+17 55	"	"	"	+18.5	02.44	02.55	1
	Focus Test									
12218	HD 193349	20 14.7	+14 04	"	"	"	+18.5	03.05	03.25	
12219	HD 191140	20 50 1	+28 08	"	"	"	+18.5	03.29	03.41	2

Clouds all day. Clearing slowly from N [illegible] Opened up at 21:00

ling Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		COMPARISONS	REMARKS
	02 22W	+17 22	0→1+	7·6	Kc	3-3 -3	Flare in $\frac{2}{3}$ Image Very Unsteady
	02 05W	+21 33	1-2	6·1	Kc	4-4	Flare in $\frac{2}{3}$ Setting 3"
	02 11W	"	"	"		4-4	Flare in $\frac{2}{3}$ Setting 3"
	02 31W	+02 44	1	6·6	95	3 -3-3	Flare in $\frac{1}{2}$ Finder held [illegible]
	01 35W	+11 14	0-1	7·34	F2	3-3 -3	Velout * Seeing Variable
	02 09W	+12 04	0	7·24	F0	3-3-3	Velout * Light Haze [illegible] Seeing bright for 7.0 but fine
	01 27W	+17 48	0	7·56	A0	3 3 3	Velout *
	00 16E	+16 24	0-1	7·34	F7	3 3 3	Binary
	01 20W	+11 51	0-1	7·34	A0	3-3-3	Velout *
	01 42W	+13 50	0+	7·23	F2	3 -3-3	Velout *
	01 58W	+17 59	0-1	6·51	B9	3 -3-3	Velout * Setting 3
		Out of hand Pass				10-7	Setting 5
	00 37W	+14 13	0-1	6·81	A0	3-3-3	Binary Finder held
	00 17W	+28 21	0	5·20	F0	3-3-3	Binary
							12 + 3 Plates for [illegible]

Focus Sat 23·52

Date Wed June 19-20 Hd Wh (Tc) Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
12220	Alcor HD 116842	13 21.2	55 30	I-25	spots 23 m & Process	.008	19.2	21 05	21 27	2

Thursday June 20-21
-cloudy, heavy mist during evening, rain at midnight, broken clouds till morning D

Friday June 21-22 Heavy clouds all night.

Tonus set 23.51

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
1 37W	55 17	1	4.16 A5	no filter 8-8	Some confusion in guiding eyepiece – perhaps a reflection of Mizar. Exposed 4 mins. Then clouds

This plate developed (It is not numbered).

June 21

MC	SC	SW	MTW	STW
-1^s	-1^s	-12^s	$+49.8^s$	$+.7^m$

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Date Saturday June 22.23 H.N. 5h W. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
12221	150203	16 01.4	48 16	L 25	L 103 N	.002	21.3	22 37	22 [illegible]	3
12222	151746	16 44.2	74 05	"	"	"	21 3	23 01	23 27	2
12223	156758	17 13.7	17 26	"	"	"	21 3	23 55 / 46	00 03 / [illegible]	1
~~12224~~	158251	17 23.1	16 32	"	"	"				
12224	173385	18 09.7	29 13	"	"	"	21.0	00 56	01 22	
12225	180583 / ~~182516~~	12.0 / ~~19 11.6~~	45 / ~~27 16~~	"	"	"	21 [illegible]	01 33	01 51	3
12226	[illegible]	[illegible]	15 42	"	"	"	21 3	02 05	02 40	3
12227	193249	20 14.3	14 04	"	"	"	21.0	02 50	03 12	
12228	199142	20 50.1	21 08	"	"	"	21.0	03 07	03 15	
12229	202313	21 09.9	+30 37	"	"	"	21.0	03 23	03 52	
		Focus Test				Set 9				

About 60 or 70 visible; Holmes & Cinchona and M3 with 74 in., N+Sh about ♀ ☿ ♂ ♄ 24 with 2.4" Focus 23.5 180

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
1C W.	43 42	1.	7.21 Az N.	3 3 3,	
4C W	74 00	1	6.72 Az	3 3 3	
35 W	1765	1	5.96 A2	3 3 3 3 3	
21W.	717	2	7.73 K0	3 3 3.	
1W	2752	2	6.56 F8p 6.31 B5	3 3 3	Wrong star - HD180583
4	4562	1		3 3 3	WRONG STAR
21W	1713	1-2	6.11 A2	3 3 3	
0 01W		2.	6.30 Ba6	3 3 3	
37W	2646	3	7.56 A0	3 3 3	
	OTB			10/7	1 + 4

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Date Sunday June 11-12 1911 To -51 Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Exp.
12230	HD 152031	16 45 9	41 49	I-25	Ilford	.003	+24.6	23 10	00 05	4
12231	HD 157255	17 15 1	+33 47	I-25	Ilford	.008	+24.7	00 15	00 42	1
12232	HD 161460	17 40 6	.33 17	I-25	"	"	+24.8	00 47	01 12	2
				Focus lost			Set T			3

Clouds clearing after 2200. Opened up 2235 (T)

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
01 08W	+32 46	0→1	7.56 A5	3-3-3	Windy & Image
01 14W	+32 46	0	6.53 A0	3-3-3	
01 20W	+33 15	0	6.99 B8	3-3	
	0T5			10-7	No improvement by 02hrs

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Date Monday June 24–25 1946 D Julian Day

Watch 1m slow

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
12233	YP 4812	16 04 3	+06 33	1-25=11"x0		.005"	+27.1	23 27	23 47
12234	YP 4810	16 03 6	+05 42				+27.0	23 51	00 31
12235	YP 5122	17 07 7	+10 12				+27.1	00 35	01 03
12236	YP 5215	17 37.5	+15 00				+27.0	01 10	01 24
	"							01 24	01 42
12237	HD 164015	17 53 9	+11 17				+27.9	01 47	02 13
12238	YP 5215 Focus test	18 34 8	+39 37				+27.0	02 21	03 11
12239	HD 196113	20 30 3	+44 50				+27.0	03 29	03 49

Cloudy till 22 hrs clearing slowly, humid

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
1h 34m W	+06 35	1-2	6.8 K_2	3-3-3	Focus at 21.40 flipper in 2/3
2h 19m W	+08 43	1-2	7.7 M_3	3-3-3	flipper in 2/3
1h 47m W	+10 42	2	7.4 M_2	3-3-3	flipper in 3 slightly hazy
	T 16 07	1+	6?c F	4-4	flipper in 1/2 - hazy towards
1h 56m W				4-4	"
2h 07m	+ 11 19	1-2	7.3c F_2	3-3-3	V. bl Y * hazy going
	1 39 39	2	7-8 M_4	3-3-3	(unable to see) flipper in 1/2 - very hazy
				10-7	" (hazy after this)
1h 11m W	+43° 21	1+	6.6 A_2	3-3-3	Binary (set on a wrong star first) "

	MC	SC	MTW	STW
Jun. 25	-07.0	-03.7	-00.2	+0m.1

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Date Tuesday June 25 - 26, 1946 **Sh. Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	
12240	Near HD 116842	13 21 2	+ 55 30	C-25	[illegible]	Set .008	+27.6	20 54	21.1[illegible]	3
	"	"	"	"	"	"	+27 6	21 12	21.4[illegible]	3
	"	"	"	"	"	"	+ 27 5	21 40	22 06	3
12241	"	"	"	"	"	"	+27 5	22 06	22 30	4
	"	"	"	"	"	"	+27 4	22 30	23 07	4
	"	"	"	"	"	"	+27 4	23 02	23 32	4
12242	"	"	"	"	"	"	+27 4	23 32	[illegible]	3
12243	YP 4587	15 20 7	+ 37 44	"	[illegible]	"	+ 27 3	00 04	00 10	2
							"	00 10	00 14	2
							"	00 14	[illegible]	
12244	YP 4790	16 00 0	+ 58 50	"	"	"	+27 3	00 21	00 26	1
							"	00 [illegible]	[illegible]	
							"	[illegible]	00 38	
12245	YP 4916	16 22 6	+ 61 44	"	"	"	+ 27 3	00 38	[illegible]	
							"	00 39	00 41	
							"	00 42	00 44	1

** Found 3 pronounced vertical streaks on mirror (primary) - looks like pigeon P*** !

Proven plates spotted 33 min each

2 of 4 plates in box stuck together, were able to separate them with rotating action

Hour Angle End	Declination	Seeing	Ptg. Mag.	COMPARISONS			REMARKS
01 46W	+ 55 18	2	4.16 A5	FILTER OUT 8-8			Setting 1. Light haze.
02 13W	"	0 ⇄ 3	"	FILTER OUT 8-8			Setting 5. Heavy haze. Seeing highly variable
02 39W	"	1 ⇄ 3	"	FILTER OUT 8-8			Setting 9. Haze diminishing. Seeing variable, deteriorating after 2 hr
03 03W	"	1	"	FILTER OUT 8-8			Setting 1. Seeing settling down. Light haze
03 35W	"	0-1	"	FILTER OUT 8-8			Setting 5. Light haze. Noted several meteors.
04 06W	"	0-1	"	FILTER OUT 8-8			Setting 7. Light haze
04 34W	"	0-1	"	FILTER OUT 8-8			Setting 1. Light haze
—	+37 36	1	4.18 F0	FILTER IN 4-4			Setting 2. Flip for ½
—	"	1	"	4-4			Setting 5 "
02 51W	"	1	"	4-4			Setting 8 "
—	x2	1-2	4.7 F8	4-4			Setting 2 5 min "
—	"	0-1	"	4-4			Setting 5 4 " " Very light haze
02 28W	x	0-1	"	4-4			Setting 1 2¾" " x - 1
—	"	1	3.9 G0	8	2	1 min	"
—	"	1	"	4-4	5	1.5 "	"
x	"	1	"	4-4	8	2.5 "	"

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Date ..... Julian Day .....

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
12246	YP 5016	16 42	+54			.005	+27.6	01 01	01 06
	"	"	"	"	"	"	"	01 06	01 10
	"	"	"	"	"	"	"	01 10	01 17
12247	YP 5111	17 03	+54 36	"	"	"	"	01 21	01 29
	"	"	"	"	"	"	+27.7	01 29	01 34
12248	[illegible]	[illegible]	+38 [illegible]	"	E 160	.005	+27.5	01 39	01 [illegible]
12249	YP 5989	19 31.7	+51 01	"	[illegible]	"	+27.5	01 58	02 [illegible]
	"	"	"	"	"	"	"	02 02	02 11
12250	YP 5996	19 32	+69 29	"	"	"	+27.4	02 28	02 36
	"	"	"	"	"	"	"	02 36	02 40
12251	HD 196133	20 30.3	+44 50	"	"	"	+27.3	02 46	02 56
12252	HD 193341	20 14.7	+14 04	"	"	"	+27.2	03 01	03 17
12253	HD 208154	21 41.4	+27 53	"	"	"	+27.3	03 19	03 35
	Four Test Quartz [illegible]								

ding Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comparison	REMARKS
		+56 -6	2-	5.2	F0	4-4	Setting 3 flipper in ½
		"	"	"		4-4	Setting 3 "
	2 25 W	"	"	"		4-4	Setting 9 "
		+54 36	1	55	F5	4-4	Setting 3 "
	2 26 W	"	1-2	"		4-4	8 " seeing variable
		+31 04	1-2	4.29	B3	5-8	
		+51 08	3-	6.0	F5	4-4	Setting 3 flipper in ½
	0 35 W	"	2-3			4-4	" 8 "
		+69 34	2-3	5.8	G8	4.4	Setting 3
	0 1 0 TW	"	2-3	"		4.4	
	0 0 7 W	+45 00	3	6.5	A2	3-3-3	Setting light hazy
	2 0 55 W	+14 12	3-	6.1	F0	3-3-3	Setting "
	0 0 11 E	+35 0	2-	6.5	A5	3 3-3	Setting "
						10-7	
							8 + 1 observing plan

June 26

MC	SC	MTW	STW
-9s	-5s	+1s	+0.1m

Date 1946 June Thurs 27-28 S-H-L-Tc Julian Day

Plate No.	Object	R.A. ~~1900~~ 1950	Declination ~~1900~~ 1950	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	
12254	N.G.C. 6205	16 39.9	36 33	1 Newt	E-103a-O			21 13	21 15	1
12255	" 6229	16 45.6	47 37	"	"			21 26	21 [illegible]	[illegible]
12256	" 6205	16 39.9	36 33	"	E-103a-E			22 04[05]	22 09[05]	
12257	" "	"	"	"	"			22 10[57]	22 20[57]	2
12258	" "	"	"	"	"			22 23[32]	22 43[32]	1
12259	" 6402	17 35.0	-3 13	"	"			22 51[25]	23 21[05]	2
12260	" "	"	"	"	E-103a-O			23 25	23 41	1
[illegible]	" 6171	16 29.7	-12 57	"	"			23 51	00 01	2
12261	" 6171	16 29.7	-12 57	"	"			00 03	00 17	2
12262	" 6333	17 16.2	-18 28	"	"			00 20	00 32	1
12263	" 6426	17 42.4	+3 12	"	"			00 40	01 04	2
12264	" 6779	19 14.6	+30 05	"	"			01 08	01 16	
12265	" 6760	19 08.6	+0 57	"	"			01 23	01 53	
12266	" 6366	17 25.1	-5 02	"	"			01 57	02 09	
12267	" 6981	20 50.7	-12 44	"	"			02 14	02 30	2

Approximate
SJW MTF
+0.5 m. near at zenith

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
				Sky mucky
				2mm Berg in focus fr red.
				Focussed on S Oph. The plate double exposed accidentally
				Two spectra recorded by the plate
		End cloudy		
				Guide star hopeless

Date 1946 Thur. Jan 27-28 (Sat.) Julian Day

Plate No.	Object	R.A. ~~1900~~ 1950	Declination ~~1900~~ 1950	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	
12268	NGC 7089	21 30.9	−1 03	I-Newt	E103aO	-	-	02 32	02 36	1
12269	" 6981	20 50.7	−12 44	"	"			02 40	02 56	2
12270	6934	20 31.7	+7 14	"				02 59	03 11	1

ing Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
					Heavy haze all night but the last hour. Spattering all plates.

193

Date Fund. Term. 22-23 1946 5-11-L-51 **Julian Day**

Plate No.	Object	R.A. ~~1900~~ 1950	Declination ~~1900~~ 1950	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
12271	NGC 6629	16 43.6	47 37	I-Newt	F103a-O			21 08	21 14
12272	" "	"	"	"	"			21 15	21 25
12273	" "	"	"	"	"			21 26	21 46
12274	" 6205	16 39.9	36 33	"	"			21 49	21 53
12275	" 6779	19 14.6	+30 05	"	"			21 59	22 07
12276	" 5904	15 15.0	+02 16	"	"			22 11	22 20
12277	" 5272	13 39.9	+28 35	"	"			22 25	22 33
12278	" 5218	16 44.6	-01 52	"	"			22 44	22 52
12279	" 6093	16 14.1	-22 52	"	"			22 56	23.10
12280	" 6171	16 29.7	-12 57	"	"			23 23	23 43
12281	" 6333	17 16.2	-18 48	"	"			23 46	00 00
12282	6174	16 54.5	-04 02					00 05	00 11
12283	6266	17 25.1	-05 02					00 16	00.30
12284	6333	17 16.2	-18 28					00 33	00.47
12285	" 5778	" 14.6	30 05					00 51	
12286	" 6656	18 30.9	-24 00					01.15	01 11

Clouds all evening spread up to 70 temp 80% clouds

ing Time B.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
	123E				Very Hazy Night
					Checked Focus Not Guided
					Guided Dec Fast Motion Slow
					Trouble with slow Drive
					Focus Double with 2.4 lamp: Focus on A Aquilae

Found on 109 Vir

Date Friday June 21-22 1946 continued S-L-St. **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	
12287	NGC 6712	18 50.3	-08 [illegible]	[illegible]	[illegible]			01·26	01·42	1
12288	NGC 6934	20 31.7	+07 14	"	"			01 48	02 04	
12289	NGC 6981	20 [illegible]	-12 44	"	"			02·05	02·21	1
12290	NGC 6984	20 03.2	-22 04	"	"			02 31	02 45	2
12291	NGC 6981	20 [illegible]	-12 44					02 50	03 06	1
12292	NGC 7089	21 30.[illegible]	-01 03					03 09	03 13	2

ng Time S.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
					Mostly with Ha last night 5 hours about 3 hours for each
					Here some other spec
					Spectra at more wide

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Date Saturday June 27-28 1941 Bell Sky Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
12293	HD 150203	16 34.4	42 06	1.25	[illegible]	5cy Ecy	29.0	23 13	23 51
12294	HD 161832	17 42.7	39 22	"	"	"	28.9	00 01	00 49
12295	[illegible]	17 13	12 56	"	"	"	25.9	00 51	01 57
12296	HD 93204	10 17.7	41 41	"	"	"	21.9	02 05	02 21
12297	HD 216170	22 52.4	41 04	"	"	"	22.9	03 12	03 42
		Kodak Test		C.T.B.				Sky	

ing Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
	1·28 W.	43 39	O	7·21 Arz	3,3,3	Bin. Occ. slow motion jumpy. little
	1·17 W.	39 21	O	7·66 Ks	3.3.3	Bin. more difficult to set on slit.
	0·56 W.	13 08	O	7·1 Bone	3 3 3	Be programme.
	0·2 p.	14 15	O	6·81 Aos	3 3 3	Bin.
	1·12 E.	17 21	O	6·98 Ac	3,3,3	Bin. Occ slow motion going. Could
					10/7	not get title to move North & East.
						Checked slow motion. Found it on
						the 1st O.K.
						3 Webs loaded new box needed.

FISHER

RKHT STAR

Sunday June 30 (WISH) (20 in.) MTW -19·8° MC -20·6° 186° STW 10·1 m

199

Date Sunday June 30 - July 1, 1946 **5h** **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle	Hour Angle End
12298	HD 121247	13 48.2	+42 41	[-25	E 101 a-0	.005	+30.2	22.56	21 58	3	
12299	HD 127663	14 27.5	+47 41	"	"	"	+30.1	22.01	22.35	4	
12300	HD 139663	15 36.2	+56 16	"	"	"	+29.9	22.40	23.16	1	
12301	HD 146514	16 13.8	+33 02	"	"	"	+29.8	23.30	00.16	2	
12302	HD 155875	17 14.0	+29.9	"	"	"	+29.8	00 19	01.03	3	
12303	HD 165341	17 54.9	+26 39	"	"	"	+29.7	01.11	01.47	4	
12304	HD 173387	19 07.2	+44 22	"	"	"	+29.6	01 54	02.15	1	
12305	HD 175354	19 07.3	+42 26	"	"	"	+29.6	02.21	3.41	2	
	From [illegible]						[illegible]				
12306	HD 179406	19 07.7	+45 16	"	"	"	+29.6	02.50	3.54	3	
	~~HD 196439~~										
	From [illegible]						[illegible]	[illegible]			

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
22 23W	+42 29	0⁻	6.69 A0	3 3 3	Vel. *
02 22W	+43 38	0-1	6.81 A2	3 3 3	Vel. *
22 05W	+56 06	1→0	7.20 B4	3 3 3	Vel. *
22 1-W	+31 58	1-2	7.49 F0	3-3-3	Vel. *
02 [illegible]	+29 01	1	7.58 F0	3 3 3	Vel. *
[illegible]	+26 41	1-2	[illegible] F2	3 3 3	Vel. *
[illegible]	+44 31	2-3	7.31 A5	3 3 3	Vel. *
01 41W	+42 33	2-3	7.33 F0	3 3 3	Vel. *
				10-?	
02 07W	+48 23	0-1	7.24 A2	3 3 3	Vel. *
	NB			10-5	

* The star left prism, then for a time, was slightly more off the slit, as the slit was changed. The result with the slit finally used for the spectrograph

20

July 1 -17·3 -5·2 -15 -0·2 To

Date Monday July 1-2, 1946 **D-5h Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle	Hour Angle End
12307	Alcor, HD 116043	13 21 2	+ 55 30	I-25	F	5.1	+24.1	21.04	21.25	1	
	"	"	"	"	"	"	+24.1	21.28	21 32	4	
	"	"	"				+24.1	21 52		4	
12345	"	"	"	"		"	+24.2	22.12	22.30	1	
	"	"	"			"	+24.2	22 30	22 50	1	
	"	"	"	"	"	"	24.1	22 52	23 08	1	
12351	"	"	"	"			-24	23.08	23.26	1	
	"	"	"	"	"	"	+24.1	23.26	23.44	4	
	"	"	"	"	"	"	+24.0	23 44	00 04	4	
12310	γ² 5155	17 13	+ 10 53	"	F	"	+24.0	00 14	00 34	1	
12311	γ² 5155 = 56	17 21.6	+ 04 14	"	"	"	+23.9	00 39	00 45	2	
	"	"	"	"	"			00 45	00 55	2	
12312	41 5296	17 35	+ 04 27	"	"		+23.9	00 57	01 04	3	
	"	"	"	"	"	"	"	01 04	01 13	3	
	"	"	"	"	"	"	"	01 13	01 28	3	
12313	γ² 5155	17 08.4	+ 06 07			"	+23.8	01 10	01 22		
						"		01 28	01 39		

Focus set at 27.49

ng Time S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS	
	02 [illegible]W	+55 11	1	4 16 A5	Filter 8 - 5	Light haze		Setting 7
	02 [illegible]	" "	1	"	Filter 8 - 8	Light haze		" 5
	03 09W	"	1-2	"	Filter 8 - 5	Very light haze		" 8
	03 21W	"	1+	"	Filter 8 - 8	Light haze		Setting 2
	03 [illegible]	"	1+	"	Filter 8 - 5	"		5
	04 05W	"	1-2	"	Filter 8 - 8		Strong wind causing telescope tube to show slight jig	" 8
	04 [illegible]	"	1-2	"	Filter 8 - 8			Setting 2
	04 13W	"	1-2	"	Filter 8 - 8		"	Setting 5
	05 01W	"	1-2	"	Filter 8 - 8		"	Setting 1
	01 [illegible]	+10 16	0-1	6.9 K5	Filter 3-3 3	Fibre in 2	Clouds [illegible]	
	[illegible]	"	0-1	56 K1	4-4	Fibre in 3		Setting 2
	01 [illegible]	[illegible]	0-1	"	4-4	"		Setting 1
	[illegible]	+09 27	0-1	4 1 K1	8	"		" 2
	[illegible]	"	0-1	"	4-4	"		" 5
	11 [illegible]	"	0-1	"	4-4	"		" 5
	[illegible]	+06 05	0-1	[illegible]	4-4	Fibre in 5		[illegible]
	[illegible]	"	"	"	4-4	"		"

Date [illegible] Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
12314	Y 5321 [illegible]	19 44 8	+ [illegible]	[illegible]	[illegible]	[illegible]	+23·6	01 41	01 59	2
12315	Yp 5041 [illegible]	[illegible]	[illegible]	[illegible]	[illegible]		+23·8	02 02	02 10	3
	"	"	"	"	"		"	02 [illegible]	[illegible]	3
12316	[illegible]	[illegible]	+ 39 38	"	[illegible]		+23·8	02 26	02 4[illegible]	[illegible]
12317	HD 196137	20 32·3	+44 50	"	[illegible]	"	+23·8	02 49	03 09	1
	Four Tilt									1
12318	HD 183743	19 14·7	+ 14 04	"			+23·7	03 13	03 35	2
	YT 7:93 [illegible]	22 40·1	+65 40	"	"	"	"			1
	"	"	"	"	"	"				1

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
02 [illegible]	+25 41	0-1	[illegible]	3-3-3	Fiber → 3/7
[illegible]	[illegible]	1	5.4 cFs	4-4	1/2
02 58 W	"	1-2		4-4	1/2 Clock going fast [illegible]
01 55 W	+39 05	1-2	4.39 B2	8-8	
01 Co..	+15 02	1-2	5.0 A2	3-3-3	Primary
	Out				
1 19 4	+14 14	1	5 or Aur	3-3-3	Primary Fiber in 3/7 but could not guard it in time to [illegible]
			4.7 K0		Fiber in 3/7
					2 plates in dome
					Daylight [illegible]
					[illegible]

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Date ... S-H-L-N-S Julian Day ...

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Ang End	
12319	NGC 6205	16 39.9	+36 33	I Nadar	A E 103E	—	—	21·25	21·45		1
12320	"	"	"	"	E 103a-D	—	—	21·48	21·58		2
12321	NGC 5053	13 13·9	+17 57	"	"	—	—	22·18	22·30		2
12322	NGC 5053	13 13·9	+17 57	"	"	—	—	22·18	22·30		2
12323	[illegible]	[illegible]	[illegible]	"	"	—	—	22·33	[illegible]		1
12324	[illegible]	[illegible]	[illegible]	"	"	—	—	22·39	22·51		2
12325	NGC 6093	16 14·1	−22 52	"	"	—	—	22·56	23·05		1
12326	NGC 6171	16 29·7	−12 57	"	"	—	—	23·11	23·23		2
12327	NGC 6333	17 16·2	−19 28	"	"	—	—	23·26	[illegible]		1
12328	NGC 6342	17 15·2	−19 32	"	"	—	—	[illegible]	[illegible]		2
12329	NGC 6333	17 16·2	−18 28	"	"	—	—	00·05	00·18		1
12330	NGC 6539	18 02·1	−07 35	"	"	—	—	00·17	00·41		2
12331	NGC 6656	18 33·3	−23 58	"	"	—	—	00·44	00·56		
12332	NGC 6779	19 14·6	+30 05	"	"	—	—	00·56	01·02		2
12333	NGC 6760	19 08·6	+01 57	"	"	—	—	01·05	01·15		1
12334	NGC 6934	20 [illegible]	+07 14	"	"	—	—	01·28	01·52		2

Forward on α Cas Pos

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
00 [illegible] E	+36 31			
00 35 E	"			
00 1[illegible] E	+47 46			Forward on β Cas, [illegible]
03 41 W	+1[illegible] 56			
01 -3W	+02 12			
24 02 W	+1[illegible] 54			
01 18 W	-22 58			Not guided Yes, guided
01 17 W	-13 03			
00 41 W	-1[illegible] 33			
01 07 W	[illegible] 36			
01 21 W	-19 31			
01 04 W	-07 39			
[illegible]	-23 [illegible]			Incorrect [illegible] Forward on β Cas for [illegible]
[illegible]	+3[illegible]			
[illegible]	+ 00 52			
[illegible]	+ 07 [illegible]			

Date Jupiter Tube 2 on dark continued 5-6-12 **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
12335	NGC 1901	2 50.7	-12 44	C Hole	Eastman	—	—	01.50	02.12	1
12336	NGC 6864	20 03 2	-22 04	"	"	—	—	02 17	02 31	2
12337	NGC 2681	8 50 1	+51 13	"	"	—	—	02 35	02 45	1
	A 113	2 37.5	+0° 14	"	"	—	—	02 46	02 57	1
12338	NGC 6951	20 50.7	-12 44	"	"	—	—	03 01	03 17	2

ng Time .S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
		- 12 49			Low on bearing in last two months of exposure. The mount was [illegible]
		- 12 [illegible]			
		- [illegible]			
		[illegible]			
	51 W	- 12 48			Guiding adequate on both
					Seeing not good all night, transparency excellent

Date Wednesday July 31 1946 S.H.T. Julian Day

Plate No.	Object	R.A. 1900 1950	Declination 1900 1950	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	
12339	N.G.C. 6205	16 39.9	36 33	I. Newt	E-103-E			21 14	21 24	1
12340	" "	"	"	"	E-103a-O			22 28	22 35	2
12341	" 5053	13 13.9	+17 57	"	"			22 39	22 51	1
12342	" "	"	"	"	"			22 51	23 05	2
12343	" 6093	16 14.1	-22 52	"	"			23 10	23 24	1
12344	" 6333	17 16.2	-18 28	"	"			23 29	23 39	2
12345	" 6402	17 35.0	-3 13	"	"			23 41 20	23 51 20	
	Nebula area 109	17 42.5	-0 11	"	"			00 01	00 11	
12346	NGC 6356	17 20.7	-17 46	"	"			00 22	00 36	2
12347	" 6656	18 33.3	-23 58	"	"			00 39	00 43	1
12348	" 6333	17 16.2	-18 28	"	"			00 46	00 54	2
12349	" 6402	17 35.0	-3 13	"	"			00 57	01 11	
12350	" 6779	19 14.6	+30 05	"	"			01 15	01 21	2
12351	" 6934	20 31.7	+7 14	"	"			01 27	01 41	
12352	" 6981	20 50.7	-12 44	"	"			01 45	02 01	2

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
0 13W	36 29			
0 24 W	"			
4 05W	+17 52			
4 19W	"			
1 35W				Seeing excellent. Exposure interrupted ½ minute
0 51W				by clock trouble. Refocused 50 ph.
0 53W				
1 05W				
1 45W				
0 38W				Unguided
2 07W				
2 04W				
0 35W				
0 22E				Refocussed on Altair
0 21 E				Amazing seeing

Date Wed Jul 3-4 1946 S-L-T Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
12353	NGC 6864	20 03.2	-22 04	1 NEWT	E103a O	-	-	02 06 45	02 22 45
	High Area 136	20 12.8	-15 01	"	"			02 26 34	02 42 34
12354	NGC 6934	20 31.7	+7 14	"	"			02 46	03 00
12355	7089	21 30.9	-01 03	"	"			03 02	03 07

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
0 48 W				
0 58 W				
0 56 W				Seeing not good at any time High winds most of night Guiding & tracking indicated
0 06 W				
				Thurs July 4 MW SW NC SC D
				−03.5 +0.2m −23.2° −04.5

Ending Time E.S.T.

Date Thurs July 4-5, 1946, S-H-L-D Julian Day

Plate No.	Object	R.A. 1900 1950	Declination 1900 1950	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
12356	NGC 5902	15 39.9	+12 38	I-Newt				21 09	21 12	1
12357	" 5904	15 16.0	+ 2 16	"				21 16	21 20	2
12358	" 6229	16 45.6	+47 37	"				21 27	21 43	1
12359	" 6205	16 39.9	+36 33	"				21 46	21 48	1
12360	" 5058	13 13.9	+17 57	"				21 54	22 04	1
12361	" 6402	17 35.0	- 3 13	"				22 09	22 23	1
12362	" 6093	16 14.1	-22 52	"				22 32	22 [illegible]	
12363	" 5058	13 13.9	+17 57	"				22 40	22 53	1
12364	" 6402	17 35.0	- 3 13	"				23 01	23 15	
12365	" 6333	17 16.2	-18 28	"				23 18	23 36	
12366	" 6356	17 20.7	-17 46	"				23 29	23 43	1
12367	" "	"	"	"				23 45[50]	23 55[57]	
	Kopff 133	17 15.4	-15 02					00 02[28]	00 13[41]	
12368	" " "	"	"					00 14[22]	00 28[41]	
	6333	17 16.7	-18 28					00 25[15]	00 33[15]	
12369	6656	18 33.7	-23 58					00 35	00 39	

Focussed on α Serpentis

ding Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
	2 04 W				
	0 37 W	+ 2 12	(4' low)		
	0 31 E	+47 33			Good seeing
	0 18 E	+36 29			Bridge in dome
	3 23 W	+17 53			
	2 40 W	- 3 17			
	2 [illegible] W	- [illegible] 55			
	1 09 W	+17 52			Focussed on ε Ophiuchi
	0 13 W	-03 18			Sun down, up.
	0 42 W	-[illegible] 33			
	2 56 W	-17 50			
	1 09 W	-17 50			
	1 [illegible] W				
	1 39 W				
	1 50 W	-19 31			
	0 38 W	-34 [illegible]			unfinished

Date Thurs. July 4-5, 1916 S-L-D Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
12370	NGC 6902	17 35.0	−3 13					20 42	00 56
12371	" 6779	1914.6	+30 05					01 00	01 06
12372	" 6934	20 31.7	+ 7 14					01 14	01 28
12373	" 6981	20 50.7	−12 44					01 32	01 48
	Keeler Nova 06	20 12.8	−15 01					01 51	02 07
12174	" 6864	20 05.3	−22 04					02 12	02 30
12175	" 6934	20 31.7	+ 7 14					02 34	02 47
12176	" 7089	21 30.9	−01 03					02 51	03 07

Reading Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
	1 54W	-3 17			
	2 24 W	+29 59			Seeing deteriorating — Focussed on altair; focus OK.
	3 05 E	+ 7 07			Seeing better
	3 35 E	-12 50			
	3 17 W	-15 07			
	1 00 W	-22 08			
	2 20 W	+ 7 08			Seeing not as good
	00	- 1 10			Squeaking and rubbing on drive

217

Date Feb 3rd, 5-6 1906 W. 5h **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
12177	Alcor HD 116842	13 21 2	+55 30	E-25	Eastman [illegible]	.008	+25.7	20.36	21.25
	"	"	"	"	"	"	+26	21.28	22.09
							+26	22.00	22.41
12178							+24	22.43	23.20
							+22	23.20	23.47
12179	[illegible]	[illegible]	[illegible]		[illegible]		+24	00.22	00.58
12180	AD [illegible]	19 19.3	35 49				+24	0.22	0.45
12181	(HD [illegible])*	[illegible]	[illegible]				+24	[illegible]	[illegible]
12182	[illegible]	[illegible]	30 [illegible]				+24	0.25	0.47
			Focus	Level	Slit 9			0.28	

*Wrong star. Probably HD 193 316 7.85 G5
1906 (20 14.5 +14 04)

Exp. for first Cassini plate 30 min exp (very short d. time), all other plates exp'd 37 min each

Hour Angle End	Declination	Seeing	Ptg. Mag.	COMPARISONS	REMARKS
2 41 W	+55 18	1-2	4.16 A5	FILTER OUT 8 8	
3 14 W	"	1-2	"	FILTER OUT 8 8	
3 55 W	50 18	1	"	FILTER OUT 8 - 8	
03 W	"	1	"	FILTER OUT 8 - 8	HAZE
15 W	"	2	"	FILTER OUT 8	DOUBLE NOT GOOD EXPOSURE, TELESCOPE TROUBLES, GUIDING, SPECTRAL CLASS, PROPER MOTION STAR
46 W	27 54	0	6.61 B=	FILTER IN 3 3 3	
1 09 W	1552	0	7.08 A=4.4	3 3 3	
1 41 W	1410	0	6.61 A=5.	3 3 3	
2 12 W	30 07	0	7.0 A=	3 3 3	
				10/7	

P/N. All this plate must be remeasured incorrectly. Plate 12 x 12, Plate July 4-5 Ph. Not plotted in sequence, and apparently this error has followed through W. (estimated Tumble last plate exp)

219

Date [illegible] Julian Day [illegible]

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
12383	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
12384	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
12385	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
12386	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
12387	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
12388	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
12389	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
12390	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
12391	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

About 100 meters. Marked E Aperture + 4/3 with 7/8 mil
T-S, standard Jamin-Lamm Prism with 4" and 2"

Recess 38.39

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
	05 E	24 02	0-1	6.7 x G	3.3.3
	50 W	13 23	0	7.44 Ao	3.3.3
	1.14 W	5 0 02	0	6.6 x Az	3.3.3
	2.51 W	27 54	0	6.5 x Bs	3.3.3
	2.21 W	46 59	0	6.90 Aa	3.3.3
	1.12 W	15 13	0-1	7.10 Mi	3.3.3
		49 47	1	5.76 Aeu	3.6
	2.10 W	28 07	0-1	6.85 Az	3.3.3

19%

	MC	SC	MTW	STW
Jul. 8	-29.0^s	-06.8^s	+06.3^s	+0.3"

221

Date ... Julian Day ...

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
	Wind dust down to 00'c outward									

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
02 20 E	+41 14	6-7	[illegible]	[illegible]	[illegible]
?	+41 24	2-1	7.44	A0 3-3-7	[illegible]
	Failed to center exposure on this area would have cut off the platform				
					3 plates in area - plate exposed on the platform

223

Date Tuesday July 17 1956 D Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
12393	HD 172187	18 23.7	+43 03	I-25	I 103a-I	4.7 .685"	+26.3	22 34	22 54	2
12394	YP 5122	17 12.4	+40 04				+26.1	22 58	23 16	3
12395	YP 5226	17 [illegible]	+40 02				+26.1	23 19	23 36	4
12396	YP 5522	18 19.0	+49 39				+26.0	23 39	00 09	
12397	YP 5729	18 52.3	+43 49				+26.0	00 19	00 30	
							+26.0	00 30	00 50	
12398	HD 181194	19 19.2	+16 19				+26.0	00 55	01 25	
	Focus Test	SED								
12399	YP 6111	19 51.5	+16 22				+25.9	01 40	01 56	
								01 56	02 20	
12400	HD 196133	20 30.2	+44 50				+26.0	02 24	02 42	
12401	HD 172187	18 23.7	+43 08				+25.9	02 47	03 01	
12402	YP 6843	21 53.8	+63 09				+25.9	03 08	03 32	
								03 32	03 49	

Clouds at clock

Focus set 23-41

Sidereal watch stopped at 16 52 and used other sidereal watch rather than transfer with first.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
0h 53m E	+43 14	1-2	6.40 A_5	3-3-3	Binary, using prism
0h 45m W	+40 04	1-2	6.2 F_8	3-3-3	flipper in ½
0h 38m W	+40 04	1-2	6.3 K_1	3-3-3	" " ⅔
0h 31m W	+49 07	1+	6.9 M_2	3-3-3	" " ⅔
0h 25m W	+43 55	1-2	5.8→6.3 M_5	3-3-3	" " ⅔ cutting 3 Lyr is mag 4.5
0h 1m W	"	2	"	3-3-3	" ⅔ " 7 → Ph mag 6.3
0h 07m W	+16 26	1+	7.34 F_7	3-3-3	Binary
				10-7	
0h 57m W	+16 33	1+	5.8-7 6.8 G_1	3-3-3	flipper in ½ cutting 3 Cyg is mag 4.5
0h 15m W	"	1+		3-3-3	" ½ " 7
1h 02m W	+45 02	2	6.68 A_2	3-3-3	Binary
3h 14m W	+43 14	2	6.40 A_5	3-3-3	Same setting as Cat 1
0h 25m W	+63 24	2+	6.7-7.5 M_{2e}	3-3-3	flipper in ½ cutting 3
0h 41m W	+63 24	2	"	3-3-3	" " 7 Dome darkening more heavily
					3+6 plates, in clouds

Jul 9 (WEN : 20 00) NC 34.6[s] SC -17.4[s] I TW +13.2[s] S TV +0.1[m] (2)

Date Tuesday, July 9 : 10. 1946 **Julian Day** 5[d]

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hrs.
12403	HD 116842 Alcor	13 21 2	+55 30	I - 25	E 103 a O PROCESS	Set 008	+26·4	20·40	21·08	3
"	"	"	"	"	"	"	+26·3	21·08	21·28	3
"	"	"	"	"	"	"	+26·2	21·28	21·52	3
12404	HD 116842 Alcor	13 21 2	+55 30	"	"	"	+26·2	21·52	22·18	4
"	"	"	"	"	"	"	+26·2	22·18	22·44	4
"	"	"	"	"	"	"	+26·2	22·44	23·12	4
12405	HD 116842 Alcor	13 21·2	+55 30	"	"	"	+26·2	23·12	23·40	3
12406	HD 164899	17 58 3	+45 21	"	ORTHOVAR E 103 a O	"	+26·1	23·49	00·31	4
12407	HD 172167	18 33·7	+43 05	"	"	"	+26·0	00·35	00·53	1
12408	HD 173[illegible]	18 39·1	+39 13	"	"	"	+26·0	01·02	01·54	2
	HD 176051	19 [illegible]3	+31 52					01·59	03·05	3
								[illegible]		
12409	HD 176051	19 53·3	+31 53	"	"	"	+26·0	02·17	02·53	3

All program plates spotted 33 mm each

Hour Angle End	Declination	Seeing	Ptg. Mag.	COMPARISONS	REMARKS
02 36W	+ 55 19	1-2	4.16 A5	FILTER OUT 8-8	Seeing improving. Setting 2
02 56W	"	2-3		FILTER OUT 8-8	Seeing poor. Setting 3
03 20W	"	2-3	"	FILTER OUT 8 8	Setting 8
03 46W	"	2-3	"	FILTER OUT 8 8	Setting 8
04 12W	"	2-3	"	FILTER OUT 8-8	Setting 7
04 41W	"	2-3	"	FILTER OUT 8-8	Setting 9
05 09W	"	2	"	FILTER OUT 8-8	Seeing deteriorating. Exposure stopped by wind shaking hour angle at star
01 25W	+ 45 23	1-2	7.44 A0	FILTER IN 3-3-3	Binary R.A clamp stuck Unclamped by hand to finish
01 11W	+ 43 13	2	6.40 A5	3-3-3	Binary Set Strong
02 05W	+ 39 17	1	7.73 K5	3-3-3	Binary Found not move S. until Dec Motor applied, on middle of Wedge for fast Motor running time. Seeing back to 0-2.
	+ 32 07		7.20 A3	3	Binary Dec Motor [illegible]
					Setting 5 Wrong star. Stopped clock and reset. Found guide star. Reset & [illegible] for fast motion.
02 51W	+ 71 53	0-1	7.30 A3	3-3-3	Setting 5 Star at end of motion should gather from star. Star chosen is in RA 18 54.4. Coord * is at 17 55.0. No other star in finder field. No time to check up in list of stars. Star seems about right mag.
				two records	
					I-T 0

227

Date Tuesday July 9-10 1912 Colorado Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hours	Hour Angle End
12410	HD 196133	20 30·3	+44 50	I 25	E 10-0	·008	+26·0	03 00	03·24	4	
	four int						Out air Hazy fog			4	
12411	HD 199140	20 59·1	+28 08	I·25	E 10-0	·008	+26·1	03·31	03·51	1	01 52

ing Time S.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	comparison ms	REMARKS
4	01 45W	+ 45 01	0-1	6.68 A2	3-3-3	Binary
					10-7	
51	01 52W	+ 28 21	0-1	6.20 B25	3-3-3	Binary Light Clouds
						3 +0 plates in Dome Heat NOT on Mirror
						Wed Jul 10 MC SC MTW STW
						-37.3^s -6.7^s +17.5^s 0.0^m

229

Date Wed Jul 10-11 1946 Tu Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
12412	[illegible]	[illegible]	[illegible]	[illegible]	E103a-F	[illegible]	26.0	20 58	21 50	[illegible]
12413	" [illegible]	[illegible]	[illegible]	"	"	"	26.0	21 57	22 27	[illegible]
12414	" [illegible]	16 59.9	+57 43	"	"		25.9	22 33	23 25	[illegible]
	Focus test							0 13		
12415	" 170710	18 25.8	+46 22	"	E103a-F	"	26.0	23 40	00 40	[illegible]
12416	" 179483	19 07.7	+48 16	"	"	"	26.0	00 46	01 31	[illegible]
12417	" 196135	20 30.3	+44 50	"	"	"	26.0	01 36	02 06	[illegible]
12418	" 201032	21 02.0	+62 59			"	26.0	02 12	02 57	[illegible]
12419	YP 6790	21 44.5	+60 14			"	26.0	03 02	03 52	[illegible]

Setting, 23-41

ing Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
2 50	1 08W	+56 07	0-	7.20 B_9	3-3-3	
	0 25W	58 34	0	680 A_3	3-3-3	
	0 20W	58 37	0-1	7.55 F_8	3-3-3	
					10-7	
	0 09W	+46 25	0-1	7 46 F_0	3-3-3	
31	0 18W	+48 23	0	7.24 A_2	3-3-3	
2 10	0 31W	+45 01	1	668 A_2	3-3-3	Bin
2 57	0 51W	+63 12	1-2-1	740 A_5	3-3-3	
1 52	1 03W	+60 28	2-	7.3 M_1	3-3	Slipping in 3/4
						3+4 plates in zone

231

Date Thurs July 11-12, 1946 D Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
12420	YP 5155	17 13 9	+10 38	9-25	E-103-0	008	+26.5	22 29	23 2
12421	5363	17 53 9	+29 16				+26.1	23 27	23 36
								23 35	23 47
12422	5366	17 59 7	+30 12				+26.1	23 51	23 59
								23 59	00 11
12423	5524	18 19 4	+31 43				+26.0	00 14	00 30
								00 30	00 44
12424	5944	19 [illegible]	+40 [illegible]				+25 9	00 47	00 57
								00 57	01 09
12425	6078	19 47 9	+30 45				+25.9	01 12	01 15
								01 15	01 27
								01 21	01 30
12426	BD 19°5249	20 11 7	+19 09				+26.0	01 34	[illegible]
	Focus Test	0705							
12427	BD 19°6159	20 36 3	+19 [illegible]				+26.0	02 29	02 45
12428	BD 20°6032	21 02 0	+20 09				+25 9	02 50	03 20

From set 23·40

Clouds at dusk after thunderstorm

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
1h 04m W	+10 59	1	6·9 K_0	3-3-3	flipped in ½
0h 39m W	+29 18	1	4·8 G_7	4-4	" " "
0h 13m W		1		3-3-3	" " "
1h 01m W	+30 15	1+	4·9 F_1	3-3-3	" ½ "
1h 14m W		1		3-3-3	" " "
0h 47m W	+21 47	1-2	5·2 K_2	3-3-3	" ⅔ " heavy cloud later
0h 29m W		1-2		3-3-3	" " "
0h 14m W	+16 15	1+	5·3 cF_5	3-3-3	" ½ "
0h 00m W				3-3-3	" " "
	+05 27	1-2	4·2 4·9 F_2	4-4	" ½ "
		1-2		4-4	" " "
0h 14m W				4-4	" " "
0h 28m W	+14 15	1+	6·9 F_{8-5}	3-3-3	Burning July 12
				10-7	MC SC SSW MTW STW m -39.6s -5.4s -6s +27.4s -.2
1h 19m W	+07 02	1+	6·6 A_1	3-3-3	Burning 7+2 plate in use
1h 37m W	+03 17	2	7·0 A_2	3-3-3	"

233

Date 1956 Fri July 12-13 Ta Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	
12429	HD 172187	18 33.7	+43 08	I-25	E 103	.008	24.1	20.50	21.14	1
12430	HD 135501	15 10 3	+56 26	"	"	"	24 1	21.21	22.21	2
12431	HD 139992	15 36.2	+56 13	"	"	"	24.1	22.24	23 12	3
12432	HD 161019	17 38.1	+27 40	"	"	"	24 0	23 19	23 44	1
12433	HD 161130	17 38 7	+29 28	"	"	"	24 0	23 48	00 13	
12434	HD 161464	17 40.6	+33 17	"	"		24.0	00 16	00 50	
12435	HD 165241	17 59 9	+26 39	"	"		23.9	00 54	[illegible]	
12436	HD 196133	20 30 3	+44 50	"			23.9	01 43	02 13	4
12437	HD 193349	20 14.7	+14 04	"			23 9	02 17	02 50	
12438	HD 172187	18 33 7	+43 08				23 9	02 58	03 20	
12439	HD 235174	21 49.4	+27 53				23 8	03 25	03 52	
	Dome beat OT)									

Ex Time 23:40

ding Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
1	2 22E	+43 14	0+	6.40 A_5	3-3-3	Bin good Sim, NW bright
2	2 13W	+56 18	0-1	7.46 A_2	3-3-3	good
3 2	2 38W	+56 07	0-1	7.20 B_9	3-3-3	[illegible]
4	1 09W	+47 43	1	6.60 A_3	3-3-3	good
0 13	1 37W	+49 28	1	6.64 A_5	3-3-3	[illegible]
0 50	2 12W	+33 17	1-	6.79 B_8	3-3-3	[illegible]
	2 39W	+26 41	1-0	7.34 F_2	3-3-3	good
1 2	0 40W	+45 01	0-1	6.68 A_2	3-3-3	Bin [illegible]
1 11	1 38W	+14 14	1-0	6.81 $A_{0.5}$	3-3-3	Bin [illegible]
2 0	3 50W	+03 14	1-	6.40 A_5	3-3-3	Bin [illegible]
2 52	1 0-W	+28 07	0	6.85 A_5	3-3-3	Bin High light cirrus forming [illegible] 3.35
					10-7	
						[illegible]
						3+3 pictures home

235

Date Saturday Sat. 13-14-1946 H-N- Sh-W- **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	
12440	HD 172187	18 33 7	+43 08	C-25	E 103a-D	Set 005	25.8	22 15	22 29	1
12441	HD 164878	17 58 3	+45 21					22 38	22 46	1
	"	"	"	"	"	"	"	22 51	23 27	1
12442	HD 173883	18 39.9	+39 13					23 32	00 10	2
12443	HD 175243	18 51.7	+17 59				"	00 15	00 33	2
12444	HD 176058	18 52 3	+31 52	"	"	"	"	00 37	01 11	1
12445	1901 52? HD 190638	19 58.5 20 00 9	+15 11 +15 13	"	"	"	"	01 20	02 24	
12446	HD 201032	21 02 0	+63 10	"	"	"	"	02 34	03 02	
12447	HD 203174	21 49.4	+27 53	"	"	"	"	03 08	03 26	
12448	HD 172187	18 33 7	+43 08	"	"	"	25 6	03 48	04 04	

Focus Test Set 9

Sec Lapsuth - The slit cap fell down between set for shape. As a result it focused for very small

150 Vinton H + Sh Shrd S Boston, Mass. 12 wds 74"
N shrd Tripler Mass with 4" 2",

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
0.58E	43 14	2	640 A5	3 3 3	Guess Set strong
	45 32	2	7.44 A0	3	Found telescope on wrong star, Sol 5.
0.35W	45.23	2		3 3 3	Sol 5
0.37W	39 18	2+	7.73 K5	3 3 3	
0.47W	18 04	2	6.80 K2	3 3 3	S Flaw
1.25W	31 09	1-	7.20 A3	3 3 3	
1.32W	15 21	1	10.0 Ma 8.00 M1	3 3 3	Star continually running WEST along slit would this be the fault of the clock? BRASS
1.01W	63 12	2	7.40 A5	3 3 3	star drifting rapidly to WEST
0.45W	42 09	1+	6.85 A5	3 3 ?	" " " "
4.40W	43 14	2-1	06.40 A5	3 3 3	To piece of iron are left out when striking test are on previous plate.
	O.T.B.			10/7	cut exposure short; afraid of fogging plate. Lost 15 minutes or more important
					time in trying exposures before setting on Pole. Shutter stuck W.
					2 holders loaded. Two unexposed.

Hand was sprung out of
Lock.

237 July 14 WSFG (12 000) -44.7[s] -05.2[s] +11.9[s] +04[m] -64.8'

Date Sunday July 14-15, 1946 Sh **Julian Day** 243 2016.5

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
12448	H[illegible] 17[illegible]7	18 33 /	+43 08	C 25	F 103a-O	5x1 m 6			

Sunday Afternoon. 35 Visitors. Showed 74 telescopes Sh

Clouds all afternoon. Rain/hail 16:- 17.00 Rain clouds clearing 21:00-21:30 By 22 Sky still

Light clouds only. NE wind. Finally clear by 23:30 Many light clouds on all horizons Open up 00:15 to get

binary at last. Done complete dig

To adjusted slit cover, now fits fairly well

238

Hour Angle End	Declination	Seeing	Ptg. Mag.	comp	Focus set	REMARKS
			6.40 A5			Light clouds moving in rapidly coast. Probably to [illegible]
						Dome in 510 Light Dome Clear by 00:30 Thanks Gaye!
						opened up at 23:00.
						Slit last closed at NE at 01:00 & Sky Up.
						2 limited plate holders in dome Heat NOT on Mirror

Date Monday Feb 15-16 1916 D Julian Day 217.

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
12497	MD 172157	15 33	+77 01	L·25	E 40 20	4·7 028	+21·1	20 42	21 57
12498	YP 4884	15 37	−05 44				+21·1	21 12	21 18
								21 13	21 16
								21 16	21 20
12499	YP 4841	16 09	−03 22				+	21 25	21 28
								21 28	21 33
12500	YP 4810	16 03	+05 41				+20·9	21 36	22 36
12501	YP 4827	16 05	+19 23					22 39	22 40
								22 41	22 43
								22 [illegible]	22 [illegible]
12502	YP 4935	16 26	+22 42				+20·9	22 50	22 58
								23 02	23 10
12503	YP 5047	16 49	+31 52				+20·9	23 14	23 [illegible]
								23 [illegible]	23 [illegible]
12504	YP 5142	17 11	+36 55				+20·9	23 34	23 38
								23 38	23 46

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
	11E	+9 : 14	1	6.40 A-	3-3-3	Binary
			1	+1 K_2	8	
					4-4	
					4-4	
				4.7 M_2	8	
	3"W	-2 : 30	1		4-4	
	1h 16"W	+1 : 44	1+	7.7 M_3	3-3-3	
				1.1 F_5	4-4	
					4-4	
	1"W	+19 20	2-		4-4	
		+2 : 10	2-	6.2 G_4	3-3-3	
	5"W		2		3-3-3	
		-31 50	1-2	5.7 F_0	4-4	
	2"W				3-3-3	
		+3 : 10	1-2	F0 G_2	4	
	50"W				4-4	

241

Date Monday July 16 1906 D Julian Day 6+?

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
12457	[illegible]	[illegible]	[illegible]				+25.9	23 49	00 13
12458	YP 5396	[illegible]	[illegible]				+25.9	00 17	[illegible]
								00 [illegible]	[illegible]
12459	YP 5402	[illegible]	[illegible]				+26.9	00 37	00 43
								00 [illegible]	[illegible]
12460	YP 5392	17 31.7	+49 03				+26.9	00 57	01 03
								01 [illegible]	1 15
12461	YP 5427	18 53 8	+17 19				+26.8	01 19	01 27
								01 37	01 41
12462	HD 196123	20 30 3	+44 50				+26.8	01 46	02 06
	Focus Test	CTD							
12463	HD 172167	18 33.7	+43 08				+26.8	02 14	02 36
12464	HD 209813	22 01 6	+46 15				+26.8	02 41	03 13
~~12465~~	HD 213389	22 [illegible]	+48 57				+26.8	03 18	03 58

110 rod screws in sleeve to lay part
of guiding apparatus in trough!
won't grip when tightened

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
49° W	+24 24	1-2	6.7 G_6	3-3-3	Plate in
	+16 48	1+	5.7 G_8	+-4	
1° 52' W				+-4	
	+08 47	1+	5.7 G_2	4-4	
2° 08' W				4-4	
	+09 07	1-2	5.8 F_2	+-4	
8' W		2		4-4	
	+17 20	2-	5.7-6.6 F_8	4-4	guiding apparatus fell out of floor from h.h. of 3 or 4 ft. Replaced tightly, found it worked again but partially loose.
1° 42' W				+-4	
1° 51' W	+45 02	1-2	6.8 A_2	3-3-3	Binocular
				10-7	
1° 17' W	+3 19	2	6.40 A_5	3-3-3	(Clock)
1° 27' W	+47 02	2	7.52 K_0	3-3-3	← Here I crossed the meridian
1° 47' W	+49 07	2-	7.55 K_1	3-3-3	5 min after, with large light scattered trees blocking (cont.) 3+5 plates in alone

Slide not spilly drawn on last exp.

June 16 [illegible] (1930) MC -49[illegible] SC -7[illegible] MTW +1[illegible] STW +06[illegible]

243

Date Tuesday Feb 16 (?) 1946 **Julian Day** 2432[illegible]18

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	
12465	HD 128169	14 30 7	+13 37	C-25	E 103a-a	[illegible]	+22.7	20 45	21.35	2
12466	HD 14[illegible]517	15 56 3	+13 34	C-25	E 103a-a	.0009	+22.6	21.43	22.25	3
12467	HD 14[illegible]62	15 57.2	+13 45	C-25	E 103a-a	.0006	+22.5	22.27	23.11	4
12468	HD 14[illegible]32	16 25 7	+15 19	C-25	E 103a-a	.0005	+22.5	23.13	23.49	1
12469	HD 213389	22.259	+48 51	C-25	E 103a-a	.0006	+22.5	00.04	00.54	2

Clouds thickening and moving in fast by 00.50 Shut dome at 00.55 and water and instruments

9/10 cloud by 01.15 - Lower at last 2 exposures N[illegible] Shut down at [illegible] HD 1[illegible]

4 loaded plateholders in dome

11 plates in opened box on bottom shelf of refrigerator

Hot Wet in Florida

Plate [illegible] Was not exposed. When returning to office building found that neck on plate came loose, which would [illegible] or [illegible] that night

0 : Clock dragging in "finder".

244

Light clouds 2000

ling Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
	02 22W	+13 22	1	7.20	A3	3.3-3	Velocity * Clock dragging · Seeing [illegible] Light clouds
	01 46W	+13 28	1	7.44	F5	3-3-3	Velocity * 0 "
	02 32W	+13 39	2+	7.56	A5	3.3-3	Velocity * 0 "
	02 42W	+15 17	2-3	7.57	A3	3.3-3	Velocity * 0
	01 17E	+49 08	2-3	7.55	K1	3.3.3	Binary 0

July 17

MC	SC	MTW	STW
-49.9^s	-4.8^s	+53.5^s	+.9^m

245

17-18

Date 1946 Wed July 16-17 Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
12470	YP 5155	17 13.9	+10 58	I·25	E 103	.008	+25.6	20 45	21 25	
12471	HD 146946	16 [illegible].8	+32 02	"	"	"	25.6	21.31	22 31	2
~~12472~~	~~HD 157255~~	~~17 17.1~~	~~+32 47~~	~~"~~	~~"~~	~~"~~	~~25.4~~	~~22 34~~	23.20	3
12473	HD 165241	17 59.9	+26 39	"	"	"	25.4	23.24	00 00	4
12474	HD 179367	19 07.2	+44 22	"	"	"	25.5	00 05	00 45	1
12475	HD 179396	19 07.3	+42 26	"	"	"	25.4	00 50	01 30	2
12476	HD 179483	19 07.7	+48 16	"	"	"	25.4	01 34	[illegible]	[illegible]
12477	HD 196133	20 30.3	+44 50	"	"	"	25.4	02 07	02 27	4
12478	YP 7133	22 46.3	+65 46	"	"	"	25.4	02 37	02 40	1
	"	"	"					02 42	02 46	
	"	"	"					02 48	02 53	
12479	HD 213389	22 25.9	+48 51	"	"	"	25.4	03 04	03 30	2
	Dew 1.64						0.73			
12480	YP 6145	22 11.4	+46 33	"	"	"	25.4	03 44	03 46	3
	"	"	"					03 47	03 50	
	"	"	"					03 51	03 55	

Set zero 23 42

Zenith + is 43 N

ding Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
	0 27 E	+10 59	0-1-2	6.9 K5	3-3-3	Slipper in 2/3 Seeing very variable Star wanders
	1 39 W	+32 00	0-1	7.49 G0	3-3-3	
	~~1 25 W~~	~~+32 46~~	0-1	6.83 A0	3-3-3	
	1 23 W	+26 40	1+-2	7.34 F2	3-3-3	
	1 02 W	+44 30	1-2	7.31 A5	3-3-3	
	1 46 W	+42 33	1 - 2	7.33 B8	3-3-3	
	2 20 W	+48 24	2	7.24 A2	3-3-3	
	1 20 W	+45 01	2+	6.68 A2	3-3-3	
	0 43 E	+65 43	2+	4.9 K1	3.3.3	
					3-3-3	
	0 30 E				3-3-3	
	0 31 W	+49 07	2+	7.55 K1	3-3-3	
					10	
				4.8 F6	3-3-3	just 1 plate in dome
					3-3-3	
	1 08 W	+56 48			3-3-3	

247

Date 1946 Thurs July 18 18 D Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	A
12481	YP 4298	14 21.8	+52 19			hit COB	+29.0	20 43	20 48	4
								20 46	20 52	
								20 52	21 02	
12482	YP 4790	16 00.0	+58 43				+29.0	21 06	21 10	1
								21 10	21 16	
								21 17	21 27	
12483	YP 5071	16 55.9	+65 17				+28.9	21 30	21 35	2
								21 38	21 52	
12484	YP 5182	17 18.4	+40 04				+28.7	21 56	22 18	3
12485	YP 5232	17 28.2	+52.23				+28.8	22 22	22 23	4
								22 23	22 26	
								22 26	22 30	
12486	YP 5260	17 34.0	+61 57				+28.8	22 34	22 46	1
								22 46	23 02	
12487	YP 5345	17 51.8	+56 53				+28.7	23 06	23 12	2
								23 12	23 29	

Few clouds in west at close of morning

ing Time S.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	Focus at 2336	REMARKS
46	1 51	+52 09	1-2	9.6 F_0	4-4	Setting 2.1	flipping in 1½ (Clock)
57	1 57				4-4	5	½
1 07	2h 04m W				4-4	8	
1 10		+58 45	1+	4.6 F_7	4-4	2	½
1 16					4-4	5	
17	1h 54m W				4-4	8	
1 22		+65 15	1-2	5.3 F_6	4-4	2	½
52	2h 24m W				4-4	7	
2 12	2h 26m W	+40 [illegible]	1-2	6.2 F_8	3-3-3	"	⅔
2 17		+52 23	1-2	3.8 cG_2	5	2	½
2 20					4-4	5	
22 27	1h 29m W				4-4	8	
22 41		+61 58	1+	5.9 G_1	4-4	3	½ (Clouds)
23 [illegible]	1h [illegible] W				4-4	7	Air growing more misty
[illegible]		+[illegible]	1+	5.0 K_3	4-4	"	⅔
23 54	1h 08m W				4-4		

249

Date Thurs July 18-19 1906 D Julian Day 0.56

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
12488	YP 5865	17 54.3	+51 30				+28.7	23 27	23 29	
								23 29	23 33	
								23 34	23 40	
12489	YP 5868	19 10.5	+67 39				+28.7	23 45	23 47	
								23 47	23 51	
								23 52	23 58	
12490	YP 5578	18 22.9	+72 41 ~~+71 42~~				+28.7	00 03	00 05	
								00 05	00 09	
								00 10	00 16	
12491	YP 6003	19 33.8	+49 59				+28.7	00 21	00 27	
								00 28	00 32	
12492	YP 6035	19 40.8	+29 01				+28.6	00 42	01 36	
12493	HT 19513 2 Fourstar	20 30.0	+54.3				+28.6	01 40	02 02	
12494	YP 6193	21 45.4	+16 49				+28.6	02 09	02 17	
								02 17	02 29	

ing Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
		+51 32	1+	4.0 K_5	8	Setting [illegible]
					4-4	
	1h 13m W				4-4	
		+67 37	1+	4.2 G_8	8	
					4-4	
	0h 14m W				4-4	
		+72 44	1+	4.1 F_5	8	
					4-4	
	1h 22m W				4-4	
		+50 07	2	5.0 F_2	4-4	Big mist holes Moon
	0h 31m W				4-4	
	1h 22m W	+29 11	2	6.7 F_2	3-3-3	Hazy, [illegible] light wind
	[illegible] W	[illegible]	2	6.4 A_5	3-3-3	
	1h 00m W	+17 54	1-2	5.6 F_2	4-4	Doc always wants a decent
	0h 11m W				4-4	

Date 19 [illegible] July 19 Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
10405	HD 215[illegible]	22 29	+18 51				+28°	02 30	02 16	[illegible]

Fri July 19 - 20

Electrical storm late afternoon

partly clear 2200 hrs but hazy,

C/U cloud at 0100 hrs

prospect of early improvement

Tq

ling Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Temp	REMARKS
	6h 8m 0	+49 07	- 2	7½ K1	3-3-3	Both mirrors
						Lights in dome
						turned off at 1:00
		Saturday July 21		Hd D	Clouds. No Data.	Heard Shades Interupt
		Sunday July 23		D	Solid clouds till 1:00	

	ME	SC	MTW	STW
Jul. 22	-70·2	-28·8	+24·3	-0·6

253

Date 1916 Thursday July 22 22 D Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			
12496	HD193349	20 14.7	+19 59				+22.7	22 45	23 25
12497	HD179394	19 [illegible]	+09 26				+22.9	00 32	67 16
	Standard								

Rain at clock, cleared by 2230, still very wet.

ling Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Temp	Remarks	REMARKS
				7.55 K		Couldn't get it because of clouds	
	[illegible]W E	+1 4 [illegible]	5	5.41 Acs	3-3-3	Binary	
52.6	1h 52m 40	+42 35	0-1	7.33 B5	3-3-[illegible]	Variable *	Almost clear, increasing mist in * some at 115 Aperture.
					10-7		

4 plates developed
2 in safe

	MC	SC (INF SC)	MTW	STW	SW
July 23:	-62.1s	+14.7s	+27.5s	+0.2m	-11.8s

255

Date Tuesday Feb 13 26 Wind 5th **Julian Day** 2426015

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	
12505	HD 137296	15 20 1	+ 11 26	C 25	E 103 a	.007	+ 27.5	20.34	21.06	1
12506	HD 137656	15 22 3	+ 11 12	I 25	E 103 a	.008	+ 27.5	21.49	22 35	2
12507	HD 143537	15 51 3	+ 13 34	I 25	E 103 a	.008	+ 27.5	22.38	23 16	3
12508	HD 145482	16 25.7	+ 11 11	C 25	E 103 a	.008	+ 27.4	23.25	00.17	4
12509	HD 154445	16 54 6	+ 17 51	C 25	E 103 a	.008	+ 27.3	00.21	01.09	1
12510	HD 167135	18 08 8	+ 11 11	C 25	E 103 a	.008	+ 27.3	01.18	01.24	2
12504	HD 168076	18 12.3	+ 11 51	C 25	E 103 a	.008	+ 27.3	01.44	02 34	3
12505	HD 209111	21 00 0	+ 11 05	C 25	E 103 a	008	+ 27.4	02 18	02 58	4
12506	HD 193412	20 16.3	+ 11 15	C 25	E 103 a	.008	+ 27.3	02.55	03 35	1
	Feeble Trail									
12507	HD 201091	21 02 0	+ 62 33	C 25	E 103 a	.008	+ 27.3	03 36	04.14	2
	Red out of focus									
	Only 2 Meteors seen									

Cumulus clouds in upper clearing at sunset. W wind.

256

Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
02 12W	+ 11 13	0-1	7.34	F2	3 3 -3	Vdoubl. * Hazy. Light cloud 21:15 21:20
02 56W	+ 12 06	1	7.24	F3	3-3 -3	Vdoubl. * Hazy. Thin cloud. Light cloud 22:05 -?
03 [illegible]W	+ 13 29	1	7.44	F5	3-3 -3	Vdoubl. * Thin [illegible] 22:55
03 38W	+15 16	1-2	7.57	A3	3-3 -?	Vdoubl. * Hard to centre on R.A by hand, [illegible] (N.B 2)
04 00W	+ 17 48	1-2	7.35	A5	3-3 3	Vdoubl. * Star [illegible]
03 17W	+ 11 24	1-2	5.76	A0	3-3 -3	Vdoubl. * [illegible]
03 37W	+ 11 54	2	6.97	B8	3 3-3	Vdoubl. * [illegible]
00 [illegible]	+47 02	2	7.52	A2	3-3 3	Binary. [illegible]
02 31W	+45 01	1-2	6.68	A1	3 3 3	Binary Filter I light clouds [illegible]
					10-7	Filter II
02 59W	+ 63 13	1+	7.40	A5	3-3 -3	Binary. [illegible]
						N.B (3) Star continually moving E along slit. Field [illegible]
						[illegible]

257

Date Wed July 24-25 1946 To Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
12508	HD 180316	19 11.0	+27 46	I-25	E 103	008	23.8	21 58	23 20
12509	{ 175055	18 48.5	+45 00	"	"	"	23.8	23 25	
	Focus test								

Strategically placed clouds delayed opening!
Fresh NW wind.

258

Set focus 23-40

ng Time S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
3 20	0 01E	+27 56	0	6·51 Bs	4-4-4	Star seems faint for 6.7 m. Cl. Ucluelet 22 25 Nebrentshei 22 40 nearly clear by 23 00
	1 00W	+45 08	0-1	7·20 Bg	5-10 10-7	Strong wind agitates image. Clears again 23.50. Star gone at 23.58. Stopped clock 00.00

At 01.10 still no useful break in clouds, NW horizon solid, high gusty wind. Closed up.
446 plates in dome

Thurs July 24
HE 15 E
-63° +37°

259

Date 1946 Thurs July 25-26 D Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
12510	HD 180316	19 11.0	+27 46	I-25	[illegible]	[illegible]	+21 9	20 34	21 18	1
12511	HD 152031	16 +59	+41 +7				+21.9	21 25	22 51	2
12512	HD 158013	17 21.7	+57 05				+21.7	22 54	23 28	3
12513	HD 171550	18 30.4	+29 40				+21.8	23 32	00 36	1
12514	HD 187462	19 45.0	+27 29				+21.5	00 40	01 40	
12515	HD 180316	19 11.0	+27 46				+21.5	01 49	02 29	
12516	HD 196133	20 30.3	+44 50				+21.4	02 42	03 12	
	Fourlet	OTB								
12517	HD 218356	23 22	+29 56				+21.4	03 20	03 40	

Cloudy in afternoon. clearing at sunset, W wind, splendid evening

Hour Angle End	Declination	Seeing	Ptg. Mag.	Color	REMARKS
					Focus Set 23.48
1h 59m E	+27 57	0-1	6.51	B_5	3-3-3 Binary
1h 59m W	+41 52	1-2	7.56	A_2	3-3-3 Vely * Change in Focus
2h 01m W	+57 07	2	6.61	A_2	3-3-3 Binary
2h 08m W	+29 44	2→1	7.23	K_0	3-3-3 Vely * (New Program) Prefogged Plate
1h 58m W	+27 39	1	7.28	G_0	3-3-3 Vely * " " Prefogged Plate
3h 03m W	+27 55	1-2	6.51	B_5	3-3-3 Binary Sky Murky Telescope Vibrating
2h 37m W	+45 03	2	6.68	A_2	3-3-3 " R.A. clamp giving trouble; OK after plugging in hour line found
					10-7
2h 33m W	+25 14	2	6.16	K_0	3-3-3 Vely *

4 plates loaded.

3 prefogged but NOT spotted plates in small cardboard box in spotting room.

26

Date 1946 Fri July 26-27 / 1a Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
12518	HD 143597	15 56.3	+13 34	I-25	E103 0	008	+21.7	20.33	22 03	
12519	HD [illegible]	[illegible]	[illegible]	"	"	"	21.7	22 39	23 50	
12520	HD 170829	18 26.4	+20 46	"	"	"	21.7	23 53	01 00	
12521	HD 176133	20 30.3	+44 50	"	"	"	21.5	01 05	01 35	
12522	HD [illegible]	[illegible]	[illegible]	"	(Pu[illegible])	"	21.5	01 39	02 14	
12523	HD [illegible]	[illegible]	[illegible]	"	"	"	21.5	02 17	02 47	
12524	HD [illegible]	00 53 0	+46 31	"	"	"	21.4	02 52	03 16	
12525	(HD [illegible]	22 01.0	+46 45	"	E103 0	"	21.4	03 21	04 10	
	Focus Test									

Set focus 23.47

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
2 05W	+13 39 (cast)	1+	7.44 F5	4-4-4	Haze began to develop 2045, clear 2100
1 52W	+11 20	2⁻-2+3	7.20 F2	4-4-4	Slide not drawn until 2239.
2 32W	+20 50	3⁻	7.57 G8	4-4-4	Numbered with real stylus. ?
1 03W	+45 01	3⁻-3+	6.61 A0	4-4-4	Best seeing I've seen at times.
1 18W	+30 14	3⁺	7.19 K0	4-4-4	New Pan Le plate
0 35W	+25 43	3⁻	6.48 G0	3-3-3	" " Stars sitting nicely
1 39E	+4 0 45	3-	6.47 B2	3-3-3	Bin. "
2 08W	+47 01	3⁻-3⁺	7.52 K0	4-4-4	"
				10-7	
					3+8 plates in dome
					0335 small bright star moves in visual aperture, moving to the East 0340 Saturn & all on photographic plate

21.15

And of aurora 120° long, 20° above S horizon, 8° wide, green, pretty bright, can't see on Antares, passes 1° S in 21 30, 15° above hor. no more. Shows for quite a long time

21.40 Beam just hits N end of aurora from gun 6 (10° E) south end of aurora shows in western portion. 21.45 very rapid changes show just above to NNE. 21.55 !!

22.20 plane and aurora - want to be sure that has nothing to do with

a bomb! 22.30 ray from zenith, no color, not bright. 23.00 Sk

23.47 - as at 21.15 again

00.00 gun 1 fire, very bright, rapid pan in yaw. Cygnus clear. Aurora very strong and

NE aurora. 01 [illegible]

263

Date Saturday July 27-28 1946 Hd-St W **Julian Day** 2432027

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
12526	HD 164078	17 54.4	+24 01	I-25	E103-0	008	+24 0	21 59	22 59	06
12527	HD 172167	18 33.7	+43 08	I-25	E103-0	008	+23.9	23 02	00 22	51
	~~HD 213321~~ Focus Test	~~22 25.9~~	~~+8 51~~	Pilzed Mercyl Base						

About 150 visitors Hd showed ♀ Boat to with 14" MTW STW
Sh showed 24 ♀ with 4", 2" +07.8 -0.5 reset - stopped 264

Set Focus 23.44

Hour Angle End	Declination	Seeing	Ptg. Mag.	COMPARISONS	REMARKS
01.06 W.	+32 42.	2	6.96 $F5_2$	3, 3. 3	Haze.
01 51 W.	+43 15	2 - 1	6.40 A5	3 3. 3	Setting 5 · worse haze very bad, haze getting worse by 00.10 Decide to close up for good
			7.55 K_1		S_2
				10-7	Setting 7
					Heat Not on Mirror
					4 plates in dewar
					3 proved bad in Magazine (5 plates)

265

Date Sunday July 28 = 1 1946 **Julian Day** 2432030

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hrs
12528	HD 166842	18 07.4	+25 32	C-25	E 103-0	.008	+26.3	22 15	23 45	2
12529	HD 173383	18 39.9	+39 13	C-25	E 103-0	.008	+26.1	23.49	01.25	3
12530	HD 181613	19 52.9	+46 50	C-25	E 103-0	.008	+26.1	01.28	01.54	4
	~~HD 196133~~	20 30.3	+44 50	C-25	E 103-0	.005				1
	Faint						Out of Hour Ang			1

Sunday Afternoon Sh, W, Mx W Over 150 Visitors. Showed 74" telescope and Saturn (magnificent!)

Light clouds rolling in from SW. Very windy at 21:00, clearing thereafter. Open up 21:50 despite continued haze

Hour Angle End	Declination	Seeing	Ptg. Mag.	COMPARISONS	REMARKS
01 42W	+25 36	2	7·44 K5	3-3-3	Velvet sky (No moon/twilight). Light breeze but steady. Open by 21:40
02 51W	+39 18	2	7·73 K5	3-3-3	Binary (dark morning light) slow ride [illegible]
02 06W	+46 59	2	6·90 A4	3-6	Binary (Thin cloud moving in from N 01:50. Stars gone 01:54 Hot Settings Separation not easy. Plate will be marked for work
			6·58 A2		Binary Settings
				10-7	Setting ?
		Solid clouds. Closed up 02:10			Heat Not on Mirror
					3 Plates in Jones
					2 plates in opened box in refrigerator

July 29 MC SC MTW STW D

+16·2 +17·8 +16·2 +10·7

Date Mon. July 22-30 1946 D Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
~~7391~~	HT 16 1 30	19 38 17	1 29 28							
	Tuesday July 30-31, 1946			Sh	Solid clouds with intermittent rain.					

Rain in afternoon, cloudy at dusk, clearing slowly late. opened up.

ding Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
						Focus unchanged
						Set on * but it went out immediately
						Back closing in again 22:16 -
						later clearing & clouding over
						in fits & starts finally hopeless

Wed July 31

MC	SC	SSW	MTW	SPW
-78.3^s	$+18.4^s$	-6.2^s	$+22.2^s$	-0.1^m

Max Jarnal Brookings, Chief of the Observatory July 31 1946

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Date Wed July 31 - Aug 1 1946 Ta Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
12531	HD 145457	16 06.0	+27 01	I-24	E 103	.008	24.0	20.20	21 36
	(M 13 for S School visitors)								
12532	HD 167135	18 07.8	+31 51	I-24	E 103	.008	24.0	22.00	22 54
12533	HD 179406	19 01.3	+03 26	"	"	"	24.0	22 55	00 08
12534	(YP 6154	19 57.8	+24 39	"	"	"	23.9	00 12	00 24
	)						2	00 25	00 43
12535	HD 196183	20 30.3	+44 50	"	"	"	24.0	00 47	01.17
12536	HD 201032	21 02.0	+62 57	"	"	"	23.9	01 22	02 32
12537	HD 224801	23 51.7	+61 42				24.0	02 37	03 03
12538	(P.T. 2678	00 53.0	+46 31				23.9	03 10	03 50
	Focus test)								
12539	YP 200	00 43.0	+57 17					04 02	04 05
								04 06	04 12
								04 11	04 16

24-1 : 23.46

Set from 23.44. Clear, light haze

ding Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp		REMARKS
	1 47W	+26 57	0+-2	7.40 K₂	4-4 4		Seeing variable, mostly 1. Numbers extremely low at times
	1 04W	+11 55	1+-2	6.76 A₀	4-4-4		
	1 18W	+12 35	1+-2	7.33 B₈	4-4-4		
	0 44W	+24 50	2	5.6 F₀	4-4-4	3	Flipped mi 1/2
	1 03W				4-4-4	3	
	1 03W	+45 01	2+	6.05 A₂	4-4-4	2	
	1 43W	+63 13	2±	7.40 A₅	4-4-4	2 in	
	0 35E	+45 00	2	6.25 A₀	4-4-4	2 in	
	0 45E	+46 [illegible]	2-	6.47 B₂	4-4-4	2	
					10-7		
	0 21E			4 = F₇	6-6	2	
	0 16E				6-6	4	Splitdome, 4 in reflig.
	0 10E ✓				6-6	5	
					Ang =		
			Haze - afternoon, cloudy like yesterday				

Date Fri Aug 2-3 1946 Tq Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	
[illegible]	HD 139992	15 36.2	+56 13	I-21	E103	.008	21.8	20 24	21 30	1
12541	HD [illegible]	17 49	+56 08	"	"	"	21.7	21 34	22 30	2
12542	YP 6251 ~~6204~~	20 12.5	-12 51 ~~04~~	"	"	"	21.5	22 47	22 52	3
	WRONG STAR — Checked, Ho.						"	22 55	23 03	
12543	HD 183399	19 24.3	+29 14	"	"	"	21.6	23 16	00 06	4
12544	HD 193347	20 14.7	+14 04	"	"	"	21.5	00 11	00 41	
12545	HD [illegible]	20 30.3	+14 50	"	"	"	21.5	00 55	01 23	
12546	HD 201032	21 02.0	+61 5[illegible]	"	"	"	21.5	01 29	02 19	
12547	HD [illegible]	[illegible]	[illegible]	"	"	"	21.5	02 24	03 04	1
12548	HD 5635	00 58.0	+46 31				21.5	03 40	04 04	
	Focus test									

Set focus 23·47

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
2 19 W	+56 06	1-2	7.20 B_g	4-4-4	72 ppm in in error
1 10 W	+56 10	2	7.00 A_5	4-4-4	
0 55 E	-12 39	2	4-55 5 x G_5	6-6	3
0 44 E				6-6	3 (2 in comp.)
1 17 W	+29 25	2+-3	7.49 K_0	4-4-4	
0 51 W	+14 15	3	0.51 A_5	4-4-4	3 in
1 18 W	+05 05	3	6.65 A_2	4-4-4	
1 43 W	+63 11	3	7.40 A_5	4-4-4	in
1 10 W	+27 45	3	7.77 G_0	4-4-4	3
0 24 E	+46 49	3	6.47 B_2	4-4-4	3 in
				10-7	8

Fine

Fine

Fine

1 Strong

1 Weak

Good

Strong

Fine

Good

Fine

273

Date Sat. Aug 30, 1946 Ha. Ta. W. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
12549	HD 176053	18 53.3	-31 52	I-25	E1070	008	23.5	22 28	00.44
	~~HD 30077~~								

about 200 visitors. showed ζ Boo. M13 with 74". Ta showed ε, H with 4".
Set focus 23.44

274

ling Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
0 44	2.20W	31 59	O	7.20 A3	3,33	HAZE GETTING HOPELESS. Good FOG 'PILING' IN. WATER DRIPPING OFF DOME VERY FAST. EVERYTHING INSIDE DOME BECOMING VERY DAMP. DECIDED TO CLOSE!
						+ PLATES IN DOME
						6 " " REFRIG.
						WBEN Sun Aug 4 18hrs EST.
						MC SC SW MTW STW
						-86s +19s -4s +39s +0.1m
						↓
						Tues, Aug 6 -91.5s +18.2s -044s +44.7s +0.2m KBL: 1200

225

Date Sun Aug 4-5 1946 Ta Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
12550	YP 4935	16 26.2	+20 42	I-25	E103	008	22 6	20 20	20 44
								20 45	21 21
12551	YP 5292	17 38.8	+14 20	"	"	"	22.5	21 25	22 21
12552	YP 5499	18 15.8	+03 20	"	"	"	22.5	22 25	00 40
								22 41	23 06
12553	HD 176193	20 30 3	+44 50	"	"	"	22.5	23 12	23 50
12554	[illegible]	19 57.8	+24 39	"	"	"	22 5	23 55	00 04
								00 05	00 20
12555	HD 193349	20 14 7	+14 04	"	"	"	22 4	00 25	01 15
12556	HD 209813	22 01 0	+46 45	"	"	"	22 2	01 27	02 07
12557	HD 5738	00 53 0	+46 31	"	"	"	22.2	02 15	02 41
	HD [illegible]	01 14 [illegible]		Focused					

Mon Aug 6-7 1946 D

Cloudy

30-40 visitors pm.
Cloudy + showers, but nearly all sent away to Radio broadcast.

Spotter at times gives unwanted buzzing sound. Can't see what causes it. Performs OK

Set focus 23 + 6

ding Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp		REMARKS
0 44	0 50W	+20 39 (43)	2⁻	6.2 G_4	6-6	3	Flippure = ½ Good
1 21	128W		2⁺		6-6	8	Fine
2 21	115W	+14 22	2⁻	6.6 F_5	4-4-4		Flippure = ½ Light cloud at 21 30, 21 46 start to go. 21 46 clear Good
	057W	+03 24	2	5.8 G_5	6-6	3	Good
23 06	123W		2		6-6	8	Flippure = ½ Good
23 50	007E	+45 02	2⁺	6.68 A_2	4-4-4		Fine Strong
00 04	040W	+24 42	2⁺	5.6 F_0	6-6	35	Flippure = ½ WRONG STAR - should be nf. took SP star. ? Strong
00 30	056W	#			6-6	9	Strong 1 Weak
01 15	133W	+14 16	2⁻	6.81 A_3	4-4-4		Fine Light cloud in NW Clear overhead Strong
02 07	040W	+47 02	3	7.52 K_0	4-4-4		Twinkle thanit. Haze Strong
02 41	139E	+46 49	3-2	6.49 B_2	4-4-4		Haze cloud closing in 0233. Star weak, poor 02 41 Strong
					10-7		Haze Light cloud for 6 Good

4 dome 10 refing (Humphrey)

Date Tuesday August 6-7 1946 5h **Julian Day** 2432039

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hours
12558	HD 153454	16 54.6	+17 51	C-25	(320879 E 103-0	Sat .008	+26.2	20.22	22.00	4
12559	HD 156377	17 12.1	+18 08	C-25	320879 E 103-0	.008	+26.2	22.03	22.59	1
12560	HD 168131	18 13.2	+11 51	C-25	(E 103-0 320879	.008	+26.2	23.02	00.04	2
12561	HD 224801	23 55.7	+44 42	C-25	(E 103a-0 PD 1216	.008	+26.2	00.14	02.50	4
12562	HD 5638	00 53.0	+46 31	C-25	E 103 320879	.008	+26.2	02.55	03.25	1
	Focus Test			Outside the room	Band					1
12563	HD 9709	01 30.0	+46 30	C-25	E 103	.008	+26.1	03.33	04.25	2

Clouds in AM, clearing after noon. Clouds on N. and W. horizons at 20.00.

Focus plate spotted 36 mm

278

Focus Set 23.41 ± 00.02

Hour Angle End	Declination	Seeing	Ptg. Mag.	COMPARISON	REMARKS
01 46W	+17 49	2	7.56 Ao	FILTER IN 3-3-3	Velocity * . Seeing suddenly dropped to 0 21.45-21.50 Too Weak then back to 1
02 23W	+18 08	2	6.90 B9	FILTER IN 3-3-3	Velocity * Too Weak
02 32W	+11 54	2	6.97 B8	FILTER IN 3-3-3	Velocity * Trace smoke! Haze ? Weak
00 25E	+44 59	2	6.25 Aop	FILTER OUT 6-5-6	Binary FINE
00 47E	+46 48	2-3	6.47 B2	FILTER IN 3-3-3	Binary Setting ? Fine
				FILTER IN 10-7	Setting ? Focus Set Visual
00 23E	+46 53	2-3	7.00 B8h	FILTER IN 3-3-3	Binary Good

	MC	SC	MTW	STK
Wed Aug 7	-93^s	+18.1^s	+97.4^s	+6.2^{ms}

1 plate in dark slide 8 in. circular box in Schupmann.

2 Cut films in Schupmann, 1 of them spotted. (Focus Set)

Heat on in Mirror.

279

Date Wednesday August 7-8 1946 St. Julian Day 2432040

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle
12564	HD 153897	16 56·5	+16 45	I-25	F[illegible] #3[illegible]	·008	+27·5	20·18	22·32	3
12565	HD 161130	17 38 7	+21 28	I-25	"	"	+27·5	22·35	23·43	4
12566	HD 175035	18 4 5	+45 00	I-25	"	"	+27·5	23·46	02·56	1
	Focus Test		Obtain through		Base					19
			[illegible] HD 213323							
	HD 209333	22 01·0	+28 28	I-25	"	"				2

Thurs Aug 8-9, 1946, D

Clear till late afternoon, then clouds, some rain and broken cloud all night

Fri Aug 9-10 [illegible]

Smoke all evening, presumably from forest fires in Sparrow Lake Region.

Hour Angle End	Declination	Seeing	Ptg. Mag.		COMPARISONS	REMARKS
					FILTER IN	Focus Set 23 39 to 00.32
02 20 W	+16 44	1-2	7.24	A0	3-3-3	Haze at first? better after 21 00 — Velocity 1 Weak *
02 49 W	+29 29	1-2	6.69	A5	3-3-3	Velocity Seeing Went
04 53 W	+45 07	1-2→0	7.20	B9	3-3-3	Intermittent light clouds 00.00 - 01.10 — Velocity * Fine
					10-7	More light clouds, haze or smoke 01.40; becoming [illegible] Seeing down to Zero 01.45. Clouds or haze gone by 02.10 - transparency Cirrus Lt. Violet Looks quite good but smoke odour continues. More clouds moving in 02.35
						Had to unclamp RA by hand.
			5.56	B9 n		Start delayed because of light clouds By 03.15 zenith partly with clear but solid clouds rolling in rapidly from NW Continued Smoke
						Decide to close up
						2 plates in dome - 4 in opened box in Refrigerator
						Hot NOT on Mirror
						Fri Aug 9 1946 MC JC SSW MTW STW
						-97.7s +18.6s +0.1s +53.1s +0.3m

281

60 - 70 visitors · Showed slides. telescope · Clouds

Date Sat Aug 10-11 1946 Hd-Sh-Ta **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
	HD 3264	00 30.7	+48 00						

Intermittent light cloud from 2200. promised to stay clear by about 0030

S.t focus 23.50

282

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
				Just nicely set when — stuff closed in again.
				Wind dropping & lots of cloud to the north so
				standard at pt 0110
				Apparently a pico casualty due to opening dome
				at this unexpected hour
				Squeak in Dec drum going N, sounds like oil wanted?

283

Date Sunday, August 11-12, 1946 5h **Julian Day** 2432044

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle
12567	HD 166621	18 06.4	+18 28	I-25	(E 103 a-O (12 328 cm))	.003	+20.7	21.43	00.33	2
	~~HD 3264~~									
	Focus Test						Outside Wind Box			2

Sit not too. Very uncertain - large masses of cloud drifting around in background for hour, sky otherwise clear

01.40 : Not much change Sky about 50% obscured, relatively clear to N Wind died down. Can not be counted on for at least an hour, which would leave insufficient time for program wanted. Decide to close up completely

Sunday Afternoon · Clouds 65 Venus · Showed 74" telescope. Sh

Clouds all day clearing after Sunset - Mostly clear by 21.00 but strong W. wind and solid clouds moving in from S.W. Cloud bank moving E. - open up 21.15

22 30 Slide and Mail called No mail here.

284

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp Time	REMARKS
03 28.W	+18 31	0→1	7.26 A2	3·3·3	Veloute * Setting 5
					Binary Clouds moving in 23.15. Star gazing 23.30 Sound of wind changed 23.40 Last Exp. 00.05-00.15
					Had to Unclamp in RA by hand
				10-7	Setting 1
close up temporarily 00.40					
					Heat NOT on Mirror.
					1 plate in dome, 4 in opened box in refrigerator
					Mon Aug 12
					MC SC SSW MTW STW
					−104.5^s +19.2^s −16^s +62.5^s +0.6^m
					MC Tripod for 104^s. weight 1.5 pounds.

285

Date Tuesday August 13 - 14, 1946 Sh **Julian Day** 2432046

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hr.
12568	HD 153809	16 56·5	+ 16 45	C-25	(E 103·0 / IIIa 3208?)	Set ·008	+21·8	20·02	21·52	3
12569	HD 156377	17 12·1	+ 18 08	C-25	(illegible)	·008	+21·6	21·57	23·27	4
12570	HD 180316	19 11·0	+27 46	C-25	(illegible)	·008	+21·5	23·31	00·31	1
12571	YP 6154, 16V up	19 57·8	+ 24 39	C-25	(E 103·0 / IIIa 32087)	·008	+21·4	00·35	01·01	2
	"	"	"	"	"	JJ	+21·4	01·01	01 15	2
12572	HD 3264	00 30·7	+ 48 00	C-25	(illegible)	·008	+21·4	01·24	02·20	3
12573	HD 5638	00 53·0	+46 31	C-25	(E 103·0 / IIIa 32087)	·008	+21·4	02·24	02·56	4
	Focus Test	Dist'd [illegible]								4
12574	HD 9709	01 30·0	+46 36	C-25	(E 103·0 / IIIa 32087)	·008	+21·4	03·01	04·03	1
12575	YP 250, Bos. 189	00 47·1	+ 60 35	C-25	(illegible)	·008	+21·3	04·04	04·25	2
	"	"	"	"	"	"	"	04·25	04·31	2
	"	"	"	"	"	"	"	04·31	04·41	2

* These plates will test the theory that for E-103-0 plate the "exposure factor" (i.e. no by which tabulated times should be multiplied) is a function of apparent magnitude as well as spectral type.

Clouds all day. Clearing in evening. Clouds on W. horizon. W. wind.

F. lit on inside of finder cap is beginning to come loose.

286

Hour Angle End	Declination	Seeing	Ptg. Mag.	COMPARISONS	REMARKS
02 03W	+16 43	2-3	7.24 A0	3-3-3	Velocity * Seeing very variable 1-3" At first. Haze at first, clearing(?) after 21.00 Focus Unchanged (Temp 20°)
				←	Focus Reset 23.48 ± 00.01
03 25W	+18 08	2"	6.90 B9	3-3-3	Velocity * Transparency seems very good
02 29W	+27 54	2"	6.51 B5	3-3-3	Binary
02 12W	+24 50	2"	5.6 F0	4-4	Flipper on ½ } nf star of pair Setting 3.
02 26W	+24 50	2	5 6 F0	4-4	Flipper on ½ } * Setting 8
01 02E	+48 19	3	7.14 B2	3-3-3	Binary Dome moved to N. Splendid Seeing Measured on 1257X
00 47E	+46 48	3	6.47 B2	3-3-3	Binary Dome N Setting 3 } Measured 1250X
				10-7	{ Focus noted very close to that of 5 Sec comparison put on same with Prisms N. and plunger fully drawn } Setting 5
00 21E	+46 53	3→4"	7.00 B8n	3-3-3	Binary. Superb seeing Dome N. moved to W. 03.30 Set Strong
00 48W	+60 53	3+	5 5 F8	4-4	Flipper on ½ * Superb seeing Setting 3
00 54W	"	"	"	4-4	Flipper ½ " Setting 5
01 04W	"	"	"	4-4	Flipper on ½ " Setting 5
					Wed Aug 14 MC SC NTW STW −2.3s +19.9s +69.5s +.65m Dust or slit?
	Heat NOT or More				Spectrum not a good one for last time
	Intend to take 4 Plates on Spectral Sequence				

Date Wed Aug 14-15 1946 Ta Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
12576	HD 164595	17583	+45 21	I 25	103.0	.008	22.8	2206	60 36	3
	~~+Pic~~	~~1 00~~	~~+ 36~~		Trans test					

Thursday Aug. 15-16, 1946.

Cloudy nearly all day, clearing around 4.30. Cloudy all night W.

Fri Aug 16 - Had a vision at 0130 hrs, weather humid, mirror possibly misted

Heat off 1930

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
3 51 W	+45 24	0-1-2	7 UU Ao	4-4-4	[illegible]
			~~6 51 05~~		
				10-7	With no perceptible improvement in visibility, closed 0100.
					4 plates done

28

Date Fri Aug 16-17 1940 Ta Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
12577	HD 168457 Focus test	18 17 3	12 1 01	I-25	103.0	.008	25.1	21 20	21 44

Sky soupy in early evening

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
1 45 W	+21 05	1-2-3	6.9 B5e	4-4-4 / 10-7	MWC 292

1. Wind clear 22:20.

* 10 min. cloud = 2 30-2 = 1 h

Closed up after exposing as long as practical. Lights out, very smoky. Heat or minor

4 plates done in total, 3 in spotting [illegible] seem up to snuff.

8 in spectrum in night.

Date [illegible] Julian Day [illegible]

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
~~[illegible]~~	HD 19[illegible]	A 20 0	+ 18 05	[illegible]	[illegible]	[illegible]		22 18	22 34 2	
12578	HD 198183	20 43 5	+ 36 07	"	L 103 0	"	+23.8	22 39	23.09 3	
12579	HD. 193349	20 14 7	11 4 04	"	"	"	+23 9	23 21	23.33 4	
		second	test							

Clouds clearing somewhat 20·30. H + Sh [illegible] To Showed Major + Minor. [illegible] & Lyrae (not resolved), showed & Hbx. M 13

focus 23·45

292

Hour Angle End	Declination	Seeing	Ptg. Mag.	COMP.	Hgt.	REMARKS
			64 R15d	3	MWC 317	Lowered Lens 2 magnitudes - need 12 hours to cool plate
0 ×W	+ 36 21	0-1-	45 Bbe	3 3.3	MWC 35½ DEC. AT END OF RUN. RAN IT BACK.	Fine Thick
49W	+ 14 16	0	6 81 Aos	3 3 3	Wind east. Thickening considerably	First to work
	9 T 13			10/7	Clouds drifting in 23 30. Black in east 23 33. Stellar tube out as long as possible. Star gone 23·38	
					Overcast completely.	
					1 plate in holder, some 3 in spotting box.	
					8 in spendthrift.	

293

Date Sunday August 11-12 1934 Julian Day 2427951

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
1239w	BD +72°1						+72.7	21 15	23 39	1.
	[illegible]									1.
	Faint Trail									1.

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
		0-1		3-3 -3	V. bad! *
				10-7	

Plate Metals - In putting on [illegible] found that [illegible] test plunger had not been fully returned to normal position after last width test. Plunger went [illegible]

3 plates in dome (loaded), (0 ?)
2 in cupboard low in Mag.
[illegible]

Mon Aug 19/46

MC	SC	SW	MTW	STW
-7.7^s	$+20.9^s$	-16^s	$+82.9^s$	$+.9^m$

295

Date Monday August 19-20, 1946 W. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
		Opened up & set on Star, clouded over around 2200. Permanently closed, last visit							

Heavy cumulus clouds blown by a strong
south west early wind all day clearing considerably Focus 23.45
around 19.00 hrs. Heavy cold bank to west of the
and east. west wind still blowing. Doubtful 296

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
Temporarily closed @ 0 Strong wind with some rain till 0100. Partly cloudy at night - DI.				
				Aug 20: (WSEN: 15:30) Watch past MTW -33s STW -05m

297

Date [illegible] **Julian Day** 2432.5?

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	
[illegible]	HD 3264	00 30.7	+64 [illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2.43	[illegible]	
	HD 213117	22 25.9	+49 51	[illegible]						
			Sky almost [illegible]							
12552	HD 3264	[illegible]	+46 [illegible]	[illegible]	[illegible]	[illegible]	+18.7	22.49	[illegible]	2
[illegible]	HD [illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	+14.7	01.15	[illegible]	1.
	[illegible]							[illegible]		1.
[illegible]	HD 218532	[illegible]	+46 [illegible]	[illegible]	[illegible]	[illegible]	+17.5	03.25	[illegible]	2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	03.06	04.10	3
[illegible]	[illegible]	[illegible]	+46 31	[illegible]	[illegible]	[illegible]	[illegible]	04.14	[illegible]	

Wed Aug 21-22 Thunderstorms [illegible] evening

[illegible] to 21°

5/10 [illegible], misty

Clouds all the time & wet [illegible] 20 2c [illegible]
21:30 Cleared up a little but not [illegible]

Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
04 05 E	+ 48 18	2 - 3	7.14	B2	3-3-3	Weak, wandering
			7.55	K1		* going 22:20 - 23:15 Clear [illegible] * going 2340
						* going 0056 [illegible]
						Sky cloud [illegible] Clear Clear [illegible]
						Fine Night 2:52
01 45 E	+ 48 18	2	7.14	B2	3-3-3	Fine
01 30 W	+ 48 18	3	7.55	K1	3-3-3	Fine
					10-7	Fine slightly to windward No'
01 34 W	+ 49 56	3	[illegible]	A10	3-3-3	[illegible] Fine
01 17 W	+ 48 18	3	7.14	B2	3-3-3	Fine
01 24 W	+ 48 18	3	7.47	B2	3-3-3	Fine

1946 Aug 21

MC	SC	SW	MTW	STW
-9.4^s	+21.0^s	-15^s	-32.2^s	-0.5^m

Watch stopped, reset Aug 22 (WHEN: 1230) MTW -00.4^s STW -1.0^m

Sidereal hand reset +0.0^m

Checked; OK (spotter)

Date Thursday August 22-23 Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.

Cumulus clouds nearby all day. At 19.30, opening up heavy cloud bank in north-west extending around to north and east. seems to be slowly spreading. Fine light clouds overhead. light NW wind. Scattered clouds 300

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
				filled in completely by 00 30
				Fri Aug 23 (minute hand of MTW assumed 30s slow)
				MC SC SW MTW STW
				−12s +21s +40s −57s −.4m

ng Time
.S.T.

30

Date Fri Aug 23-24 1946 Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
12587	HD 164878	17 58.3	+45 21	I 25	103-0	.008	16 8	20 11	21 35	
12588	HD 180316	19 11.0	+27 46	"	"	"	16.8	21 39	22 19	
12589	HD 192044	20 07.8	+26 11	"	"	"	16.8	22 22	22 40	
12590	HD 194335	20 20.0	+37 10	"	"	"	16.8	22 43	22 59	
12591	HD 195592	20 27.2	+43 59	"	"	"	16.7	23 02	00 02	
12592	HD 198478	20 45.5	+45 45	"	"	"	16.7	00 04 00 10	00 09 00 18	
12593	HD 209819	22 01.0	+46 45	"	"	"	16.7	00 21	01 21	
12594	HD 217050	22 52.7	+42 09	"	"	"	16.7	01 25 32	01 31 40	
12595	HD 217543	22 56.1	+38 10	"	"	"	16.6	01 43	02 05	
	Focus test									

Set from 23.55

Clouded in & raining. Transparency looks good. This morning's [illegible] weather forecast is "cloudy"

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
1 24 W	+45 25	2-3	7.44 A0	4-3-4	Wide transit. Seeing variable. Bin.
0 55 W	+ 27° 54	2-3	6.51 B5	4-4-4	Bin
0 20 W	+ 26 22	3-	5.9 B8 ne	4-4-4	MWC 331
0 26 W	+37 22	3'	5 7 B3 ne	4-4-4	" 343
1 22 W	+44 11	3	7.2 B, se	4-4-4	" 347. Star looks yellowish! perhaps mostly contrast with preceding bright star ^ P ⊕ S Sky glow from Seattle
1 11 W 1 20 W	+46 00	3	7.9 B2 Sev	6-6 6-6	3/8 " 353 Twist for a bracket
1 08 W	+47 03	3	7.52 K0	4-4-4	Bin Messed up numbering of plate.
0 25 W 0 35 W	+48 25	3	5 2 B3 ne	6-6 6-6	MWC 344 3/8
0 56 W	+38 28	3	6 4 B3 ne	4-4-4	5' " 34 Clouding up rapidly. Down 1½ m at 0200. Nearly zero 0204.
				10-7	9 Solid cloud, standard exposure. Why doesn't airways close up after opening plate plotter?

NB 4 plates in holders, 3 in spotting box, all in cupboard

303

H-Sh

Date Saturday August 24-25, 1946 Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
	Cleared considerably around 23 00 EDST. Some cloud south east, moving slowly in with NE wind. —									
	Sund., August 25-26, 1146									
	Sunday PM 50-60 visitors To showed						74" telescope, sunspots			
	Fine all morning and early PM. Heavy showers 15.00 - 19.00. Clouds clearing about 22.30 but persistent heavy haze. By 0.00 EST clouds gone but thick haze - losing 1-2 magnitudes. Everything very wet. Little prospect of improvement - give up. Sh.									
	Globe and Flint called 23.00 No strange flickering head light to NE, visible from Wright Building, colour changing continuously. Thick haze here and nothing unusual to be seen. Probably a plane. Flare or other terrestrial phenomenon.									

about 150 visitors. Viewed M13 with 74 inch in tel at closed (about ½ way it)
B Eggis binoc, and then Jupiter (near horizon) with 4 inch.

304

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
				in south & west, very heavy cloud bank up
d. 2330.				Cloud bank overhead at 00 00 – Hopeless W.

Mon Aug 26

MC	SC	SW	MTW	STW
-14^s	$+21^s$	$+32^s$	-38^s	-0.2^m

minute hand slow

W.

305

Date Monday Night August 26, 1946 Julian Day 27

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
12596	HD 173383	18 39.9	+39 13	I-25	103-O	.000	21.0	20 58	22 42	2.02
12597	HD 196712	20 31	-02 46	"	"	"	20.9	22 51	23 22	.47
12598	HD 172187	18 33.7	+43 08	"	"	"	20.9	23 35	00 47	4.14
12599	HD 214946	22 36.7	+44 29	"	"	"	20.8	00 56	02 08	3.N
12 ~~600~~ 600	HD 213389	22 25.9	+48 51	"	"	"	20.8	02 13	03 15	49
12 ~~601~~ 601	H.D. 8862	01 22.3	+43 3[illegible]	"	"	"	20.8	03 22	03 58	
	HD 15814							04 06		
12 ~~602~~ 602	HD 10585	01 38 2	31 43	"	"	"	20.8	04 16	05 02	43
	Focus Test							O.T.B.		

Overcast in evening with dense layer
Light clouds on after part of night, and haze.

Focus 23.48

306

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
2.02W	+39 18	2 - 3	7.73 K5	4.4.4	Binary Light clouds & haze
0.47W	-02 33	2 - 3	6.3 B9e	4.4.4	MWC 350
4 14W	+43 14	2 - 3	6.40 A5	4.4.4	Binary
1.31W	40 47	2 - 3	7.18 A2	4.4.4	
2.49W	49 07	3	7.55 K1	4.4.4	
0 05W	43 49	3	6.54 B9	4.4.4	
					SETS
1.23W	31 59	3	7.20 G6	4.4 y	Set 9 Very difficult to strike arc at first trial. Should be extended.
				10/y	Set 3 4 plates exposed. Opened box of 12 in frig.

Clear but some cumulus all day, heavy clouds & snow from 1 Sunset. Clearing after 21:00. Heavy haze rapidly clearing. Wind to N by 21:30 & up 22:00. Haze still hopeless at altitudes below 5° or 60°. Quite clear at Zenith.

307

Date Tues. Aug. 27-28, 1946 **Julian Day** 2432060

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle	Hour Angle End
1260	HD 196126	19 11·0	+27 46	C-2	E 103-a-o Cut	·008	+22·5	22·15	23·09	4	5 09

Aug 25 Intervalometer delayed to aboard, overcast.

Focus found undamped set 23·45 t 00·02 (.02 hour)

g Time S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	comp	REMARKS
	*02 01W	+27 54	1	65 05	3-3-3	Binary Hop (variable). Sat Stars
						light thicks 23·00 * gone 23·07 Outlook very uncertain.
						☆ Zenith sated by 23·15. Close up temporarily
						A few scattered stars only visible at 00·45. Close up permanently
						Weather 2F MC SC SW NTW STW
						-16·5' +17' ~~-17'~~ -29·5' 0·0'
						1 loaded plate (E 103 a-0) in dome.
						Plate holder 2 in Miss N's Room for T.
				Loaded 10350		4+12+12 = 28 Cut E 103 a-0 plates in refrigerator
				plate supply		4 E 103-a plates (Spotted) in opened box in refrigerator
				now 2		Hunt not on Junior.
						Finder cross wire light needs attention - in dome when it is dark whether "on" or off.

309 **Date** Thursday night [illegible] W. Sh **Julian Day** 2432062.

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	
[illegible]	[illegible]	[illegible]	+ 42 05	[illegible]	[illegible]	.008	+17.2	19 35	20-09	
	Focus Test Lab Light [illegible]		scanned [illegible] on Thursday Aug 27-28. After correction [illegible]							
12 606	HD [illegible]	17 58.3	+45 21	I-25	F 030 [illegible]	.008		20-24	21 06	2
	18 [illegible]									
12606	HD205314	21 29.4	49 30	I-25	E 103a O 327469	.008	17.0	23 39	0010	1
12607	HD 214946	22 38.7	44 29	"	E 1030	"	17.0	0017	0035	2
12608	HD 5638	00 53.0	46 31	"	E 103a O	"	17 0	0243	0313	3
12609	HD 10588	01 38.2	31 43	"	"	"	17.0	03 29	04 15	4
	Focus Test									
				FRI AUG 30		MC	SC	SW	MTW	STW
						-18^s	+21.5^s	-17^s	-19.5^s	+0.2^m

Dark not a bit starlight by the clock 14h 0. Clear by 15½h. Sky overcast by 19h 15. No sign of W. or [illegible] Evening clouds clearly visible from House on Rich Hill, clearing [illegible]; forecast cloudy all night.

310

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comparisons	REMARKS
0.0 12 E	+43 15	2-3	5.40	As.	3-3-3	Clouds to the north [illegible]
No to West						Haze also. * spring 20.03. Ok [illegible] 05
1 W	+45 25	1-2.	7.44	Ao	3-3-3	REMARK * Camera only after S. Finder (+). Could this be a [illegible]
						Using [illegible]
					10-7s.	[illegible]
0 56	49 45	1-0	5.76	Aon	3. 2	21 15 [illegible]
2 10W	44 46	0	7.18	A2	4 4 4	[illegible]
0 41 W	46 47	0	6.47	B2	3, 3 3	[illegible]
0 48 W.	31 57	0+0	7.20	G0	3. 3 3	ON OPENING UP AFTER SETTING ON STAR, FINDER LIGHT WOULD NOT GO ON, SPENT TIME IN CUTTING CASING BACK ON LIGHT WIRES & CONNECTING TO COPPER WIRE ON LEFT SIDE OF FINDER LIGHT NOW WORKING QUITE W.L. RESET ON ANOTHER STAR. W. Focus 23.54 01.00
	O.T.B.				10/7.	
						SEEING GETTING VERY BAD. CLOUDS & HAZE MOVING IN HEAVY CLOUDS IN N.W. LOSING ABOUT 3 mags. [illegible]
						HEAVIER CLOUDS MOVING IN FROM NW 04.05
	2 103-0 plates in box in frig. for use with bright stars.					CLEAR AT END OF EXPOSURE. LOADED 1 HOUR 103-O, 3 103aC. [illegible]

311

Date FRI AUG 30-31 1946 Ta Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour An End
12610	HD 172187	18 33 7	+43 08	I·25	F103a O (1274.8)	.008	173	22 19	22 51	1 233
12611	180316	[illegible]	[illegible]	"	"	"	17·2	22 57	23 21	2 226
	focus shot									

Set focus 23.52

312

Opened tentatively 21 30
but clouds thick, worsens.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
2 33W	+43 14	2-3	6.40 Ar	3-3-3	Weak lightning. Likely looking hole in clouds. Slight haze
2 26W	+27 54	2-3	6.51 Bs	3-3-3	Strong haze 22 32, worse 22 42, better 22 47. Strong haze 23 00
				10-7	15' Rec at end 1 min. Cut 5' light + windows will close motion. Light cloud 23 18. Sky filling in from NW. Nearly gone 23 12, gone 23 20 for the other motion south / in ~15 mins, still not sent to C
					Thin hazy, N. plates will gain/cut corner. Closed down 0000

2+2 plates in dome NB Holders 1+2 Counted 103-0

3+4 " 103a-0

H - To - D W.

313 Date Saturday Aug 31 - Sept 1, 1946 Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
12612	HD 180316	19 11.0	27 46	I-25	103a-O	.008		21 36	
	HD 180316	19 11.0	27 46	I-25	E103a-O	.008	20.4	21 48	22 22
12613	HD 193315 193349	20 14.5 20 14.7	14 04 14 04	"	"	"	20.4	22 27	23 19
12614	HD 205314	21 29.4	49 30	"	E103O	"	20.3	23 27	00 04
12615	HD 215566 (HD 216436)	22 41.0	44 14	"	E103O	"	20.3	00 26	01 06
12616	AG [illegible]	22 33.2	45 40	"	"	"	20.3	01 16	02 40
12617	HD 3638	00 03.0	46 31	"	"	"	20.3	02 48	03 12
12618	HD 8862	01 22.3	43 31	"	"	"	20.2	03 18	03 36
12619	HD 10588	01 38.2	31 43	"	"	"	20.2	03 42	04 14
12620	HD 13138	02 14.2	50 07	"	"	"	20.2	04 21	04 45

Stars Test G.T.B.

For 5.1 23 47 [illegible]

ng Time S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
					3.	
2 22	1 29 W	27 52	1 + 2	6.51 B5.	3-3 3	
3 14	1 24 W	14 14	1 - 0	7.85 G5 6.81 A0 5	3 3 3	FLASHBULB HAS NOW FALLEN OUT OF SOCKET. THE FOLLOWING DEC. READINGS WILL BE THOSE TAKEN AFTER SETTING, FEELING GETTING [illegible], TEMP TAKEN BETWEEN EXPOSURES,
3 46	0 54 W	49 46	1	5.76 A0N	3 3 3	
4 1	0 45 W	44 31	1 - 2	7 02 B8	3 3 3	FOUND ANOTHER BULB. FLASH STILL BAD.
3 40	1 25 W	25 43	1	8.63 K0	3 3 3	DARK SPOT IN CENTER OF BEND.
3 16	0 39 W	46 48	2	6.47 B2	3 3 3	
3 36	0 3 W	43 47	3	6.54 B9	3 3 3	
4 0	0 55 W	31 58	3	7.20 G5	3 3 3	
4 27	0 44 W		2	6.61 F2	3 3 3	
					10/7	[illegible]

Date..... Julian Day.....

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.

Ending Time
E.S.T.